

TIFFANY & Co.

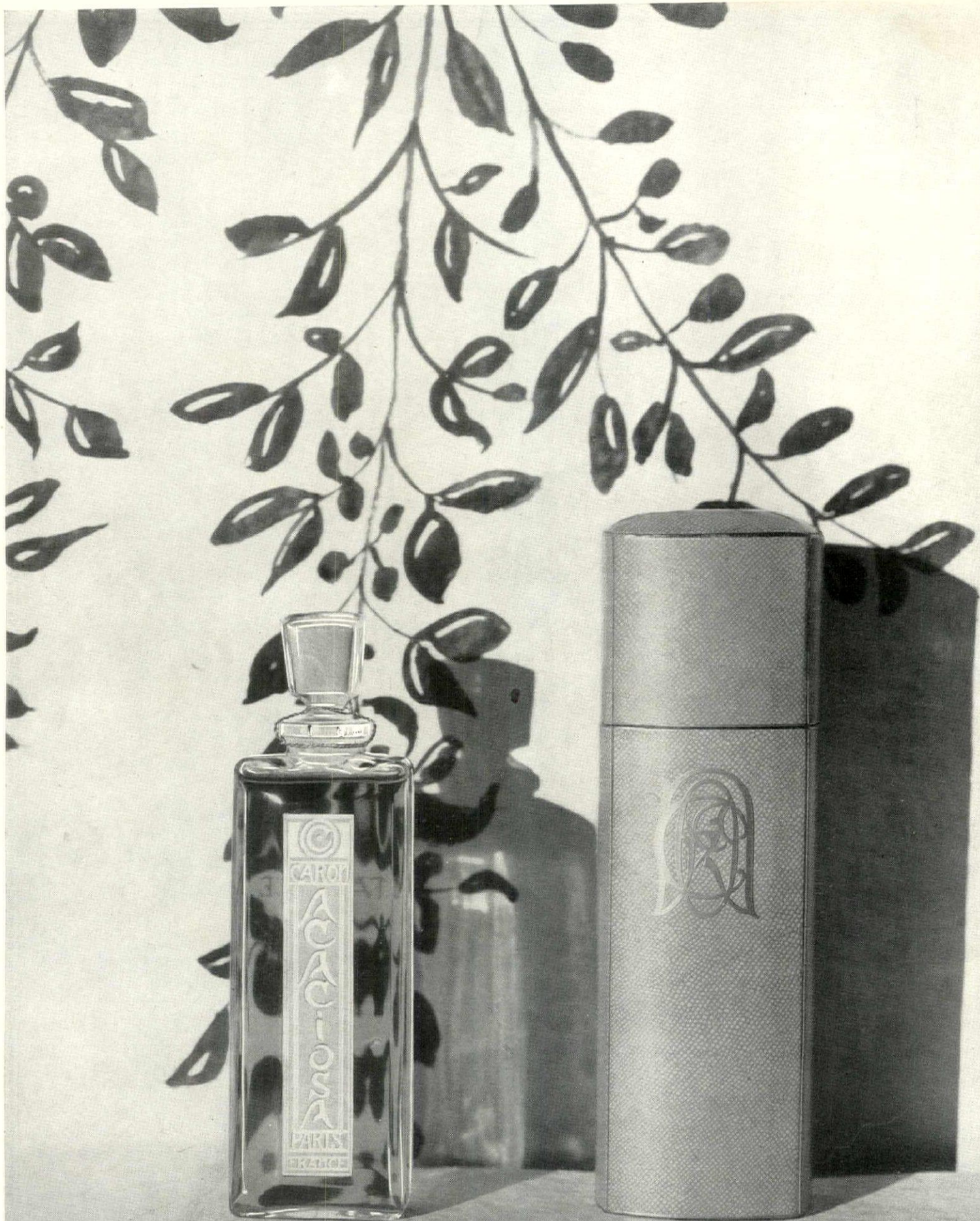
JEWELERS SILVERSMITHS STATIONERS

DIAMOND RINGS

*Emerald-Cut, Marquise
and Round Diamonds*

MAIL INQUIRIES RECEIVE PROMPT ATTENTION

FIFTH AVENUE & 37TH STREET
NEW YORK



ACACIOSA
Parfum de Jeunesse
CARON
Paris

Presented to George Washington



The original of this graceful desk was presented to George Washington by General Lafayette. This Kittinger reproduction in Solid Mahogany possesses all the charm and character of the original, and makes it possible for you to enjoy the beauty and generous utility of this historic desk in your own home.

An appropriate swivel chair and a Philadelphia Chippendale arm chair, both in Solid Mahogany, complete this setting for the Colonial or Georgian interior.

Visit The Kittinger Showroom Nearest You

In Buffalo

The attractive showroom at our factory Exhibit . . . 1872 Elmwood Avenue . . . is shown below.



In Chicago

At 433 East Erie Street
Near Lake Shore Drive

In New York

At 385 Madison Ave.

In Los Angeles

At the Factory
1300 S. Goodrich Blvd.

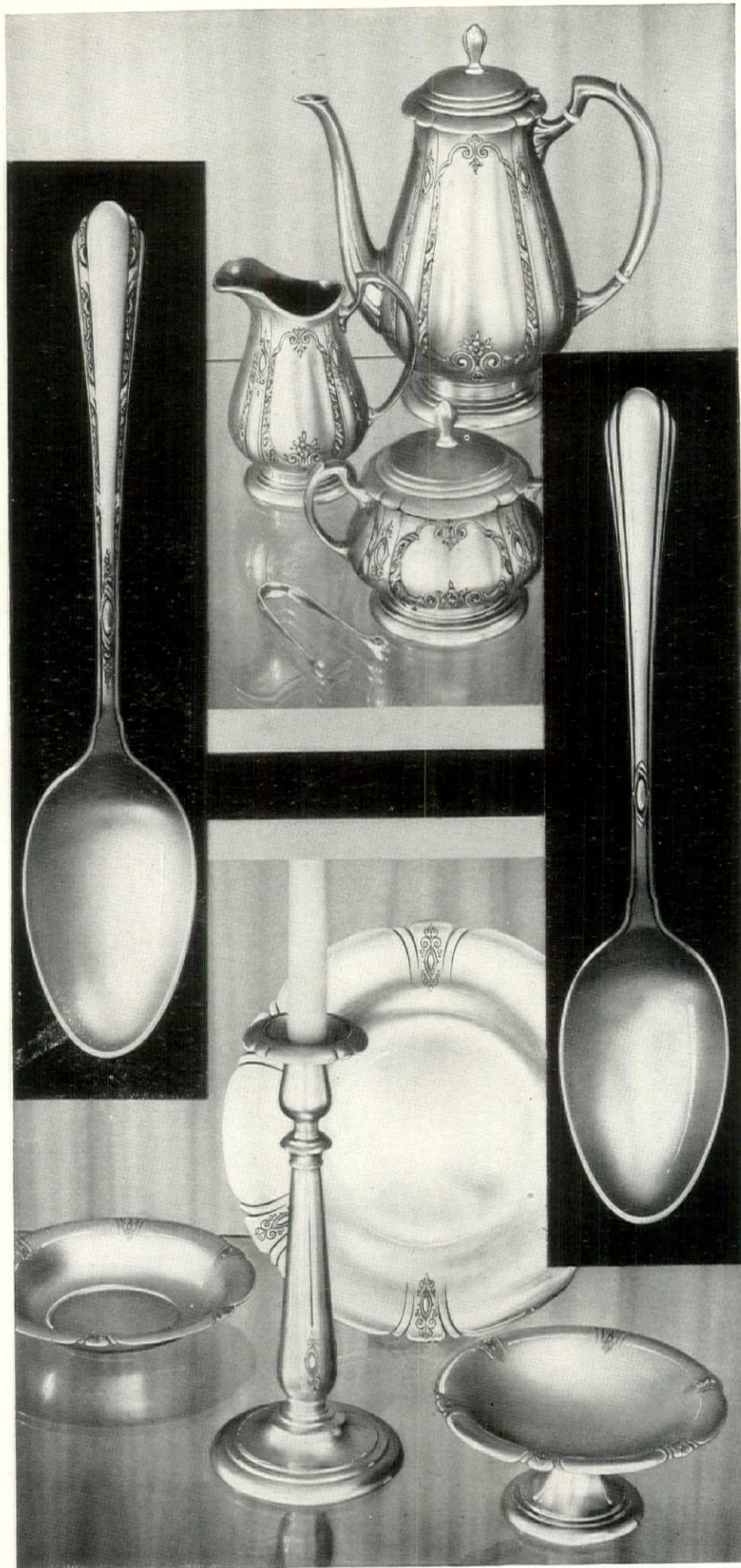
THERE are over 700 authentic reproductions and adaptations in the Kittinger line . . . exclusively in solid woods . . . principally American Walnut, Honduras Mahogany, Oak and Maple. Over a half century of experience in recreating the finest Period furniture is reflected in the distinctive appearance and staunch construction of Kittinger Furniture . . . sold by leading furniture stores and decorators everywhere.

Have you received a copy of our booklet "The Charm of a Livable Home"? It contains room arrangement suggestions and photographs of furniture groupings. Address Kittinger Company, 1872 Elmwood Ave., Buffalo, N. Y., for your copy . . . or secure one at any of our showrooms.



KITTINGER

Distinctive Furniture



Complete Matching Services at New Low Prices

(These prices are for Lady Diana—Chased Diana is slightly higher.)

6 teaspoons now cost but \$8.50

A set of 20 pieces of Lady Diana to serve informal luncheon for four persons (teaspoons, dessert forks, dessert knives, salad forks)—\$48.00.

A set of 84 pieces, a family set—serves 8

people comfortably and correctly—\$223.00.

The flowing lines of the Lady Diana flatware are reflected in every piece of the complete matching service. Pieces pictured directly above: sandwich plate \$30, jelly dish \$15, compote \$20, candlesticks \$75 per pair.



DIFFERENCE OF OPINION

We are told that moderns who approve each other's cars, lipsticks and contract differ decidedly about these two designs in sterling... The difference goes deeper than mere opinion, of course! If you adore the modern-Grecian influence, you'll adore Lady Diana too. If you've gone 1931-Victorian, Chased Diana will enchant you. Personalities are happily mated, this year, to both Paris models and Towle sterling.

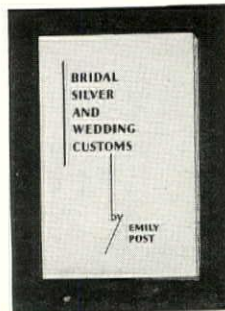
• • •

This is a wonderful year to buy sterling! Prices are less than for many, many seasons. "Lower prices" on many things, this year, may mean correspondingly lower quality. But the purity of sterling silver, you must remember, is fixed by government standard. And its social status is as unexcelled as ever.

At current prices, there can be no difference of opinion about the advisability of buying Towle sterling now.

TOWLE

STERLING SILVER EXCLUSIVELY



EMILY POST, distinguished author of "Etiquette, the Blue Book of Social Usage," has written a fascinating booklet called "Bridal Silver and Wedding Customs." If you've a wedding in prospect, better send for it without delay!

The Towle Silversmiths, Dept. K-3, Newburyport, Mass. I enclose 25¢ in coin or stamps for Emily Post's "Bridal Silver and Wedding Customs."

Name

Address

City & State

My jeweler is

B. ALTMAN & CO.

FIFTH AVENUE AT 34th STREET
NEW YORK



Beverage glasses that have a delightful zest are these in a set of four, one with red stripes, one yellow, one green and the other blue. Made of blown glass with gaily hued figures in a hollow ball stem and tipping the ends of fruit picks.

THE SET COMPLETE

\$7.50

Mail and Telephone Orders



GLASSWARE
FOURTH FLOOR

Gilbert Rohde

Distinguished member of the American
Union of Decorative Artists and Craftsmen

CREATES



A NEW MODE IN FURNITURE



NOT EVEN PARIS has produced anything to compare with this Rohde Contemporary Furniture. It's smart, modern. Yet its dignity, its sound good taste, make it fitting for any type of room. The wood is a warm rich brown. The special upholstery is a harmonious pattern of brown and tan shades. And deep spring-filled cushions make it gorgeously comfortable.

NOTHING in Europe—nothing in America—approaches the new Heywood-Wakefield furniture. That's the verdict of famous designers and prominent decorators.

"Amazingly modern . . . without being extreme," they say. "Striking, unusual . . . with sound good taste in the lines of every piece."

Your own good taste will say it, too, the minute you see these new designs. You'll instantly visualize them in *your* home—bringing character to a difficult corner, lifting a whole room out of the ordinary.

Plan to see them soon . . . sit in them . . . note how cleverly they are shaped . . . so comfortable that you just can't help settling back on the deep cushions.

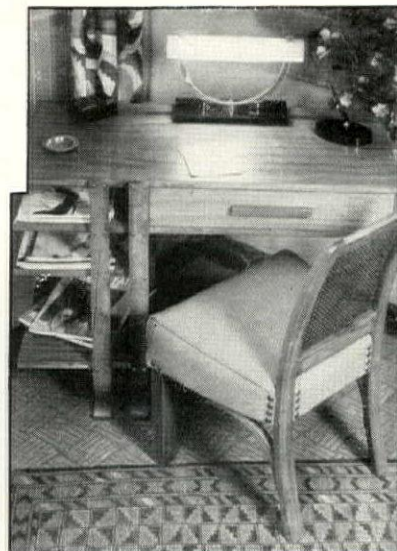
And exquisitely upholstered, of course, in the very newest fabrics. In fact, each smart pattern was specially chosen for design and color harmony by Isabel M. Crocé, well-known expert on upholstery.

All the better stores are showing this new Heywood-Wakefield furniture. Take a minute tomorrow and see it for yourself.

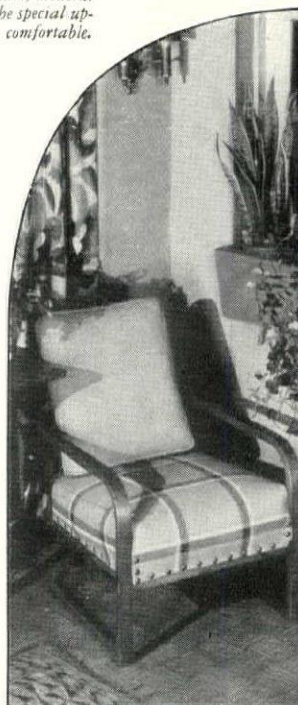
HEYWOOD-WAKEFIELD

EXECUTIVE OFFICES, BOSTON, MASS.

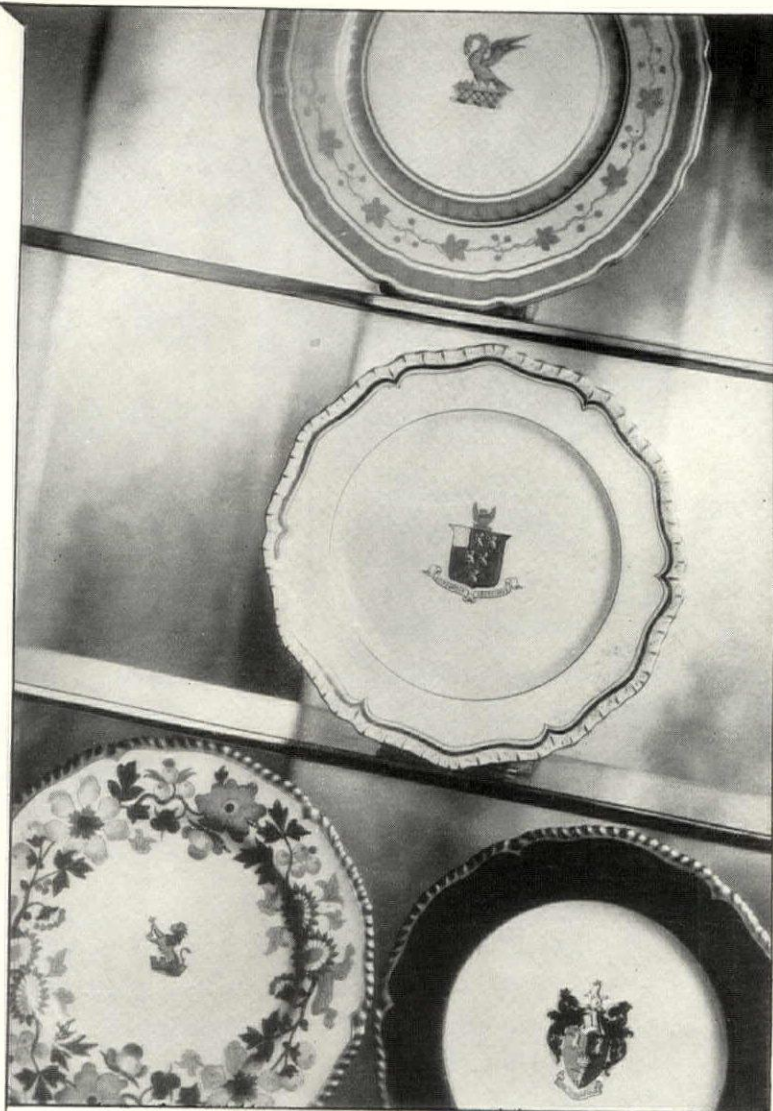
Makers of Fine Furniture



A DELIGHTFULLY PRACTICAL combination. This table may be used for a desk. The cane back of the chair is stained to match the warm brown wood.



CAN'T YOU JUST SEE this chair with its smart upholstery in a corner of your living-room! Another design offered in Rohde Contemporary Furniture.



The dignity of the FAMILY CREST and the beauty of fine CHINA and GLASS

—combine to give one's dinner service a gracious and distinguished air. The use of the crest, or the monogram, has become of great importance among families who prefer a certain individuality in their possessions. Macy's offers entire services, or any pieces one selects, in a variety of handsome patterns on which crests would be appropriate. All work, of course, is done to order.

WE have chosen four service plates and four glasses, to give you an idea of the variety of our collection.

THE PLATES

Top	\$198.00 dozen
Center	59.75 dozen
Lower left	297.00 dozen
Lower right . . .	198.00 dozen

THE GLASSES

Upper left	74.50 dozen
Upper right . . .	74.50 dozen
Lower left	99.75 dozen
Lower right . . .	99.75 dozen

BASEMENT

MACY'S

34th Street and Broadway, New York



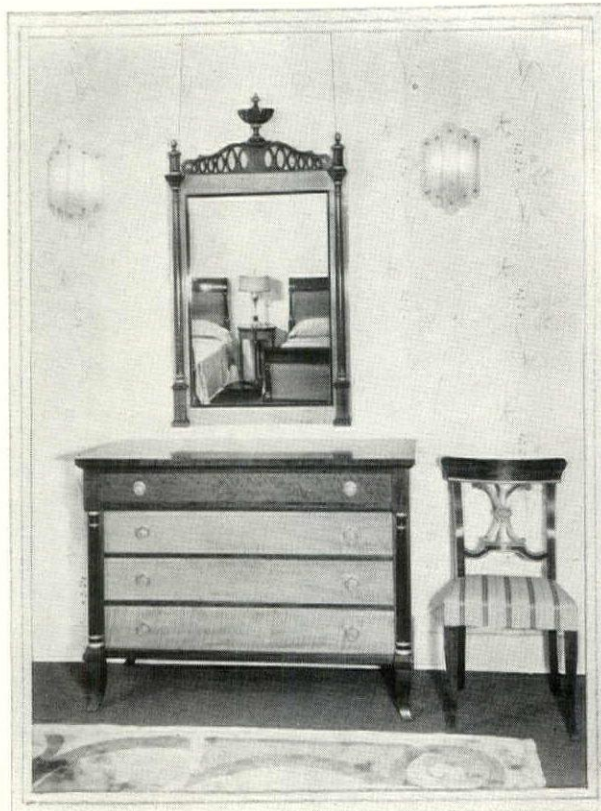


THE ORIGIN OF BIEDERMEIER • Throughout the dreary dawn of the 1800s, Germany was almost continuously warring—over-run by Napoleonic troopers. Then came the respite of peace, the growth and prosperity of a large middle class—the German Bürgerschaft who were hardworking, thrifty, economical, conservative . . . fond of comfort, yet suspicious of elegance.

Either too poor or too prejudiced to follow the current and beautiful Empire furniture . . . they

took these graceful forms from France and added a little here, subtracted a little there. With the result—a furniture known as Biedermeier—perfectly reflective of the state of mind of the times. Biedermeier is almost pure Empire in form—yet with a naive colorful grace added. It is marked by simplicity, cleanness of line and color.

And all decorators have discovered it to be marvellously compatible with our modern Dynamique furniture. See our collection in the Biedermeier manner.



JOHNSON FURNITURE CO.
JOHNSON-HANDLEY-JOHNSON
CO. • GRAND RAPIDS, MICH.

CREATORS OF FINE PERIOD
AND MODERN FURNITURE

KENSINGTON FURNITURE

AWARDED GOLD MEDAL OF HONOR IN NATIVE INDUSTRIAL ART
39TH ANNUAL EXHIBITION ARCHITECTURAL LEAGUE OF NEW YORK



CHIPPENDALE CARVED MAHOGANY BEDROOM GROUP, by KENSINGTON

The Character and Scope of Kensington Bedroom Furniture

KENSINGTON bedroom furniture, while retaining the character and the charm of old work, is designed for the home of today. It is as convenient and adequate in service as it is decorative.

Whether the need is for a bedroom with the quiet elegance of a Georgian mansion, or the simple charm of an English cottage or

Colonial farmhouse, a wide choice of distinctive and beautiful furniture is found in Kensington designs.

All Kensington Furniture is made and finished by hand throughout in the best possible manner, and is a permanent investment in beauty and utility.

Examples of all of our work may be seen at our Showrooms, arranged so as to give an accurate impression of how the furniture will look in the purchaser's home.

The purchase of Kensington Furniture may be arranged through your decorator or furniture dealer


KENSINGTON MFG COMPANY
MANUFACTURERS
DECORATIVE FURNITURE
NEW YORK

SHOWROOMS, 41 WEST 45TH STREET, SIXTH FLOOR

Write for illustrated Booklet and pamphlet, "How Kensington Furniture May Be Purchased"

GRAND CENTRAL PALACE • NEW YORK CITY

The Third

International Antiques Exposition

February 27 to March 7 1931

Opens Friday evening, February 27th at 8 o'clock.
Every succeeding day from 10 A. M. until 10:30 P. M.
Closes Saturday night, March 7th, at 10 30 P. M.

Will far surpass its predecessors in magnitude and in the variety, excellence and elaboration of its displays

Timed to synchronize with the rising tide of American prosperity, the Third International Antiques Exposition is assured of an exceptionally large attendance on the part of the buying public eagerly returning to the market for antiques and the fine arts. It will present the finest collection of authentic antiques ever assembled—an array of hundreds of magnificent, historical, romantic objets d'art.

ANTIQUES EXPOSITION COMPANY, INC., 115 BROADWAY, NEW YORK CITY
Telephone: Barclay 7-8074 Cable Address: Antexpos, N. Y.

Among the prominent dealers and decorators who will exhibit are the following:

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Norman R. Adams, Inc.
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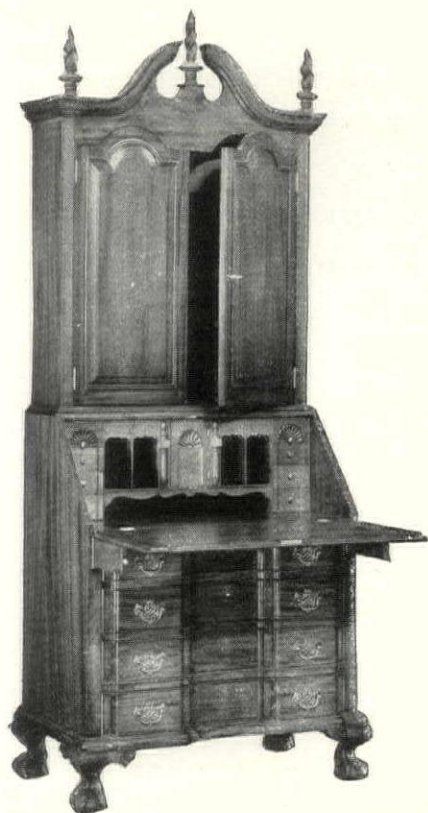
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CHARAK



Charak dining room suite, consisting of American Hepplewhite three-part table, shield back chairs, and buffet, with Chippendale china cabinet.



Charak American Chippendale block-front secretary-bookcase in mahogany. This is of the best Colonial type, period about 1770.

CHARAK FURNITURE represents a sincere effort to produce, through the medium of real craftsmanship, Early American designs that shall be in every respect worthy of the originals. Every piece of Charak Furniture is custom-made by craftsmen chosen for their experience, skill, and devotion to their work. The finest selected mahogany and maple are used exclusively on surfaces everywhere—solid mahogany or solid maple where advisable. Mahogany is used exclusively for drawer interiors. Every piece of furniture is dull hand-rubbed, resulting in the finest finish obtainable. You will find much to interest you in a call at any of our show-rooms but, if that is not convenient, we suggest that you write for a copy of "The Charak Primer." It will be sent without charge.

CHARAK FURNITURE COMPANY, INC.

Faithful Reproductions of Colonial and Early American Furniture in Mahogany and Maple

Purchases made through your decorator or dealer

FACTORY AT BOSTON, MASSACHUSETTS

NEW YORK, One Park Avenue

LOS ANGELES

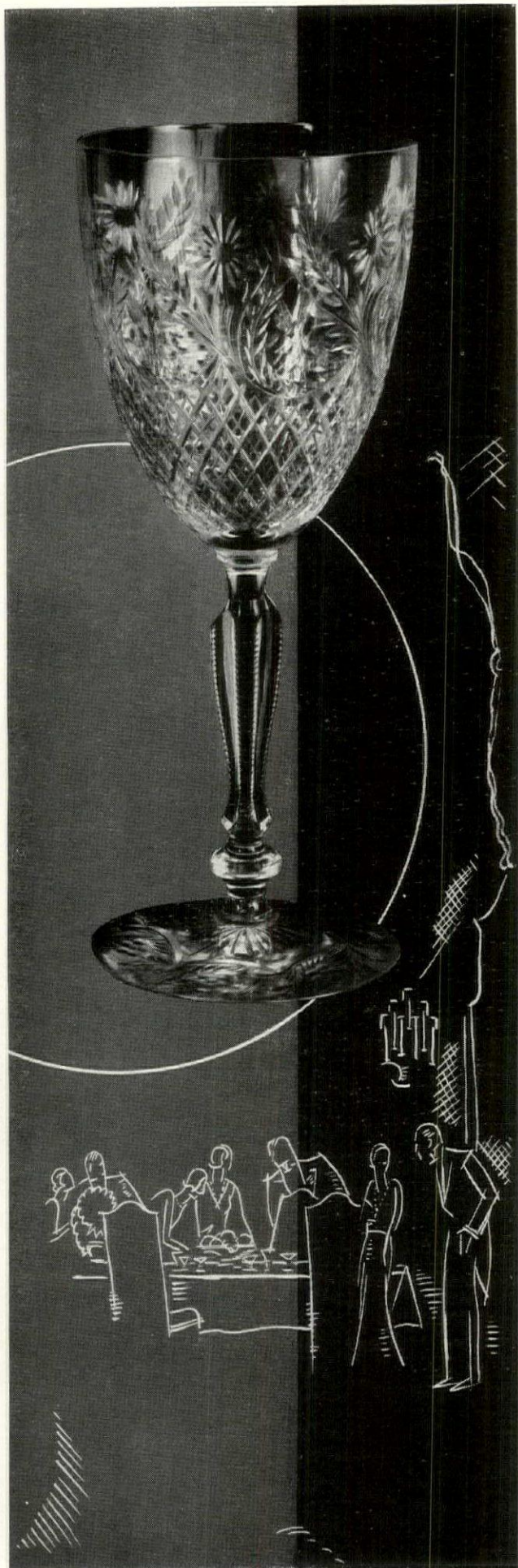
R. G. BINGHAM, 7216 Beverly Blvd.

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623 So. Wabash Ave.

SLOAN ROCK CRYSTAL

TO HARMONIZE WITH
YOUR DINING-ROOM

Past masters in the art of gracious living, are these charming people who live and entertain in harmonious rooms. The appointments of the dining table, particularly, must harmonize with the rest of the room, as surely as jewelry with the costume. Peasant glassware, for instance, is a white elephant in a classic dining-room of 18th Century inspiration.

Now that the more feminine, gracious periods of decoration are dominant, rock crystal with its gem-like quality is very much in vogue. The designers of Sloan Rock Crystal have created patterns suitable for all types of rooms in current favor . . . 18th Century English, American, French; Directoire; Victorian; and Contemporary.

You will prefer Sloan Crystal for its sparkle, the exquisite cutting of the numerous designs and the well-proportioned shapes of the goblets, tumblers, all types of beverage glasses, cocktail and liqueur glasses, sherbet glasses, finger bowls and plates.

Sloan Rock Crystal Ware in fifteen patterns, including all types of glasses, goblets and plates in three sizes, may be obtained at Gimbel's, New York; Carson, Pirie & Scott, Chicago; Snellenberg's, Philadelphia; A. Stowell & Co., Inc., Boston; Ed. Schuster & Co., Milwaukee; Sterling & Welch Co., Cleveland; Kresge, Newark. If your favorite store does not carry it, write direct to Sloan Bros. Rock Crystal Ware, Lonaconing, Md. Prices to suit every purse.

R O C K C R Y S T A L W A R E
R I N G S L I K E A B E L L



LONACONING

MARYLAND

The Mellow Colors of CELANESE

Express the
Delicate Beauty
of the Directoire



THE graceful, feminine quality of the Directoire setting — favored in the current revival of feminine fashions — finds a harmonious decorative accent in draperies of Celanese. The luxurious textures . . . the soft, clear colors of Celanese . . . reflect the subtle beauty of this charming period without disclosing the sturdy features of these modern synthetic textiles. Celanese Decorative Fabrics have a natural, heavy suppleness — entirely free from loading . . .

they are not harmed by rain or dampness . . . do not shrink or stretch . . . will not mold or mildew . . . do not split or crack . . . and may be cleaned repeatedly without losing their lustrous beauty of texture and luminous quality of color.



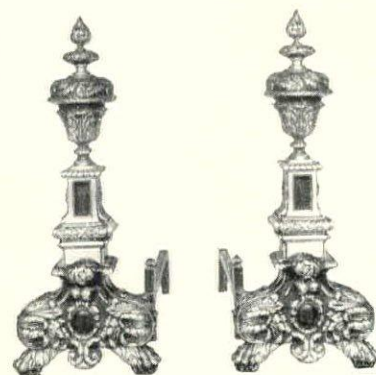
Margery Sill Wickware uses draperies of Celanese Faille Taffeta over glass curtains of Celanese Voile, both in a soft, maize gold tone, to achieve a delightfully sunny effect in a Directoire breakfast room.

CELANESE *Decorative Fabrics*

TRADE MARK REG. U. S. PAT. OFF.

Whether you desire authentic antiques here you will find the answer to your needs in MANTELS

THE Wm. H. Jackson Company's activities in the creation and importation of fine mantels are a revelation to all who wish to add authentic beauty to their hearths and homes. ❖ Whether you wish a rare and costly antique mantel, or a facsimile of some museum piece worth thousands of dollars, Jackson stands ready to serve you. ❖ Whether you desire the classic simplicity of the Brothers Adam and their illustrious contemporaries Percier and Fontaine...the elegance of the Empire...or the richly ornate styles of the Renaissance...Jackson is equally prepared to supply your needs. ❖ Whether your interiors be "early" or "late"—English, French, Italian, Spanish or Colonial—this century-old House, with its wide experience in the creation and collection of *objets d'art*, is eminently qualified to provide mantels of distinguished beauty and decoratively appropriate style, size, period and nationality. ❖ The Wm. H. Jackson Company is not only a direct importer of Marble and Stone Mantels (both authentic antiques and modern reproductions) but duplicates many of these Old World masterpieces in Cretan Stone, an exclusive Jackson product, which rivals natural stone itself, in hardness, texture and beauty. ❖ Jackson Mantels, and other Jackson Fireplace Accessories created to dramatize the hearth and make it a vital factor in the decorative scheme, may be seen at the Jackson Galleries in New York and Chicago and in other cities at those well-known establishments which serve you as Jackson's Exclusive Representatives. (See panel at right).



These leading establishments, long known for the scope and character of their service, now bring to you, as exclusive representatives, the famed creations of the House of Jackson:

Baltimore
J. G. VALIANT COMPANY

Cincinnati
THE A. B. CLOSSON JR. COMPANY

Cleveland
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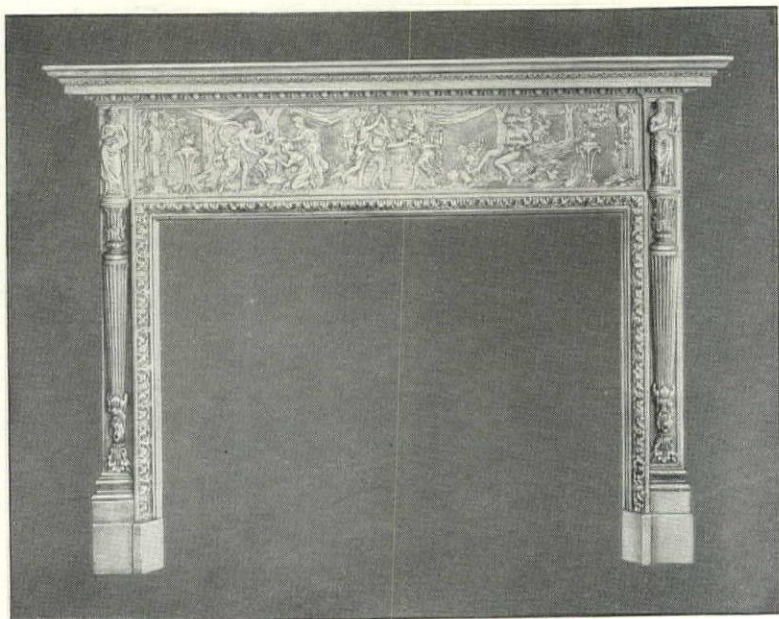
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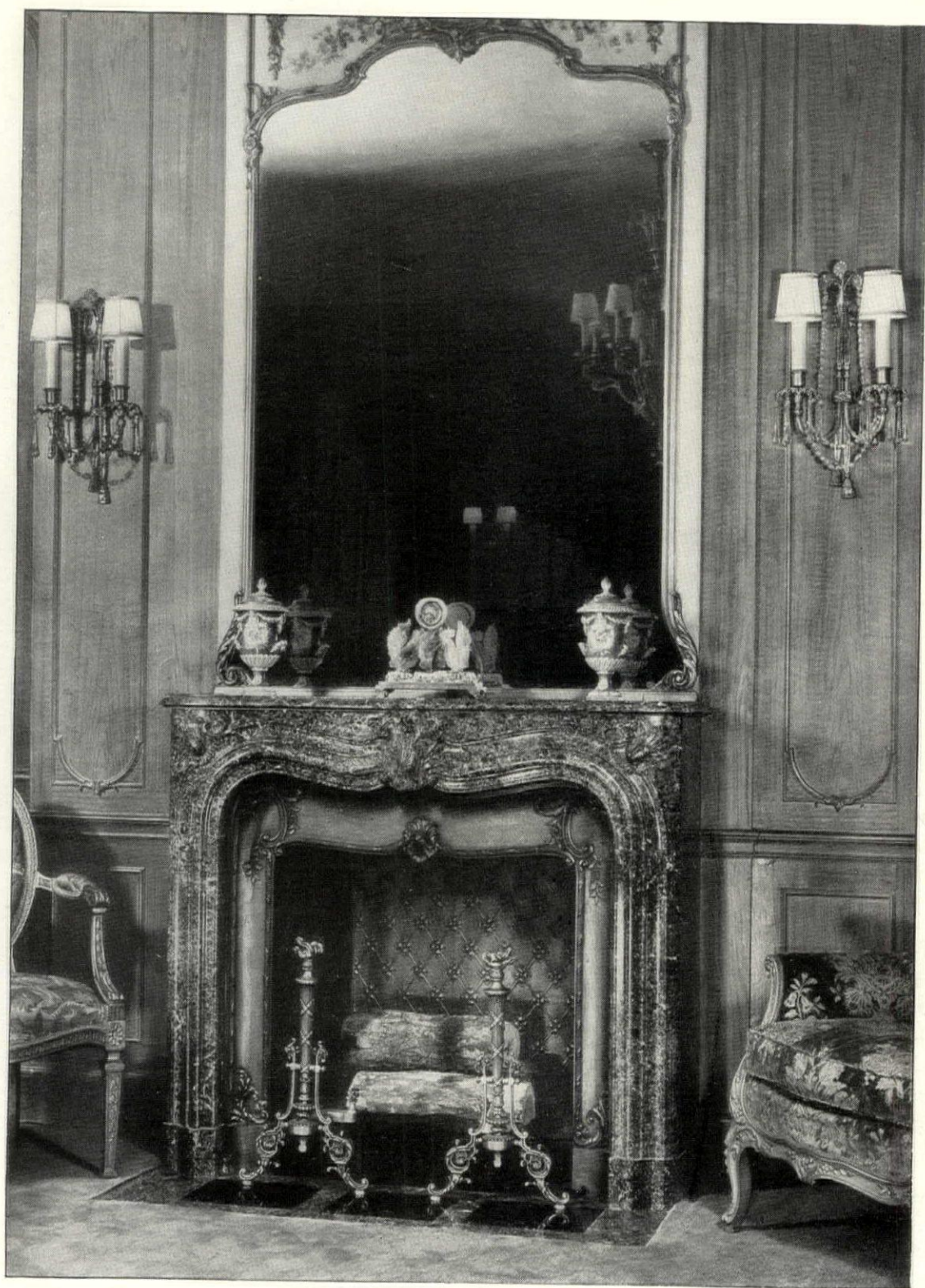


Authentic reproduction in Cretan Stone of a fine Adam Mantel, revealing the Italian influence which marks some of the best examples of this artist's work. Cretan Stone is an exclusive Jackson product, composed principally of finely crushed marble. It permits modeling, chiseling and tooling of the highest character.

WM. H.

over a hundred years of service to the

or charming modern reproductions ~ ~



*Complete Fireplace Ensemble furnished and installed by the Wm. H. Jackson Company.
A beautiful Louis XV Marble Mantel imported from France by Jackson and equipped with appropriate Period Andirons, Metal Linings and Cove Frame of Jackson design and manufacture.*

JACKSON COMPANY

2 West 47th Street, New York
318 No. Michigan Ave., Chicago

prominent families in the social register

At last the bedroom has come into its own. We moderns have discovered that not only do we sleep in our bedrooms but wake up in them . . . sometimes breakfast in them . . . even receive our friends in them. And so all the resources of modern wallpaper are called upon to aid in making bedrooms gay or alluring . . . stimulating or restful as the temperament of the owner dictates.

The right wallpaper can work a lovely magic in *your* bedrooms, too . . . emphasizing the sturdy masculinity of this room . . . making that one suavely elegant . . . the other sweetly *chic*. With its aid dull rooms take on a refreshing newness . . . ill assorted furniture an unexpected harmony. And every morning the members of your family wake to walls that reflect their varying personalities . . . that whisper sophistication or naivete . . . are dignified or gay.

Because, today, the range of wallpapers—classical, semi-classical and modern—is so wide . . . and because the effect of varying patterns on the apparent size and shape of a room is so different . . . to help you the Wallpaper Association has published a handbook. This tells you almost everything you want to know about decorating with wallpaper. 10c will bring it to you and with it comes the right to free advice at all times on your individual decorating problems.



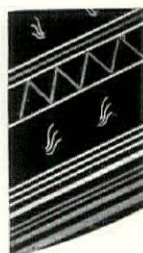
The WALLPAPER ASSOCIATION

10 EAST 40TH STREET NEW YORK

The Wallpaper Association, 10 East 40th Street, New York
Please send me your book "Improve it with Wallpaper." I enclose 10c.

Name _____ Address _____

My Wallpaper Dealer's Name _____





An inexpensive personal car of quality and charm



The Chevrolet Sport Coupe with rumble seat

Of course, the modern woman wants the car she calls her own to be attractive. That's why Fisher designers have styled the new Chevrolet Six with a smart new swing to its lines and a smart new sparkle to its colors. And if you think charming interiors are exclusive to costly cars, by all means see what has been done in this new Chevrolet. The wide, deeply cushioned seats are smartly tailored in broadcloth or mohair. Fittings and trimmings are all of excellent quality and in excellent taste. And there is really every bit of the comfort and convenience to be found in expensive cars. In the matter of mechanics, you can take this new Chevrolet for granted. It is a *thoroughly* well-built car—swift and smooth—extremely easy to handle and comfortable to ride in. All in all, the new Chevrolet Six is the kind of smart personal car that one takes some little pride in owning and a great deal of pleasure in driving.

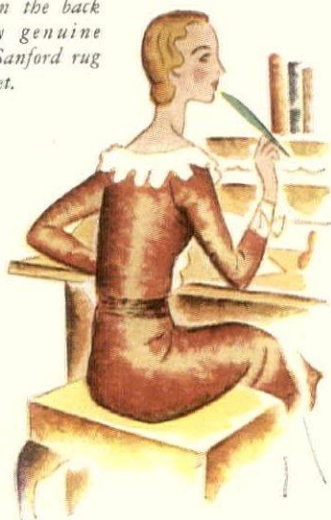
Chevrolet prices range from \$475 to \$650, f. o. b. Flint, Michigan. Special equipment extra
CHEVROLET MOTOR COMPANY, DETROIT, MICHIGAN. *Division of General Motors Corporation*

NEW CHEVROLET SIX

The Great American Value



Look for the
BIGELOW-SANFORD
name, the mark of
quality on the back
of every genuine
Bigelow-Sanford rug
and carpet.



How SMALL IS YOUR BUDGET ?

...never mind! Don't let your budget scare you away from Bigelow-Sanford rugs and carpets. As little as \$20 will buy Bigelow-Sanford quality...superb quality that is made possible by the unrivalled resources of the oldest and largest of weavers.

A nearby merchant (name on request) will show you patterns and colorings designed by Bigelow-Sanford to meet your every need. • Send for illustrated folders (free). For \$1 a beautiful, bound book, *Decorating Your Home*, will also be sent. Bigelow-Sanford Carpet Co. Inc., 385 Madison Avenue, New York.

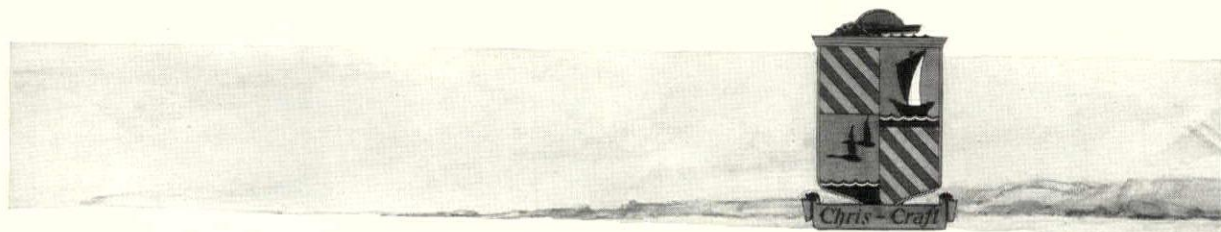
*Rugs and Carpets
by*

BIGELOW-SANFORD

\$20 to \$180 9' x 12' SIZE

No rugs and carpets so varied as those by Bigelow-Sanford... designs, colorings and weaves for every type of home, every taste.

Golden hours—packed with pleasure



21 new Custom and Standard runabouts and sedans; 17 to 30 ft.; 25 to 45 M. P. H.; \$1295 to \$6500.

Every day is filled with pleasure . . . when you own a Chris-Craft. A world unknown to landmen is yours to explore. ★ ★ Go where blue skies beckon; drink deep of sun and wind . . . and health. Log the miles slowly, or eat them up in a swift, exhilarating dash. ★ ★ Chris-Craft joins the young folks in their water sports. It carries family and friends in *dry*, deep-cushioned comfort on all-day trips. It is a necessary part of vacation or social life at the world's watering places. ★ ★ You'll enjoy Chris-Craft speed, beauty and luxury more, knowing these are *safe*, seaworthy boats . . . product of 44 years' experience . . . with the famous Chris-Craft V-type hull and double-planked bottom. ★ ★ A *new* Chris-Craft fleet, smarter and finer than ever, now awaits inspection . . . models suiting every taste as to size, speed, power and price; as outstanding in value as in beauty and performance. ★ ★ Plan, this year, to share the joys of motor boating, which Chris-Craft has made so inexpensive and easy to obtain. Your Chris-Craft merchant will gladly demonstrate . . . and explain the finance plan that enables you to buy out of income.

© C-C Corp., 1931 (107)

Chris-Craft

RUNABOUTS . . . SEDANS . . . COMMUTERS
CRUISERS . . . YACHTS . . . TENDERS

New 31- and 36-ft. family cruisers; single and double cabin, open or enclosed bridge; priced as low as \$3975.



CHRIS-CRAFT CORPORATION—1103 DETROIT ROAD, ALGONAC, MICHIGAN
NEW YORK DIRECT FACTORY BRANCH—1 WEST 52ND ST., AT 5TH AVENUE



The clock in the photograph above is LYNN, with Westminster tubular chimes and gold dial. Price \$325

"Late again! We'd better get a Telechron[★] Clock"

HOSTESSES' nerves are calmer now. Servants are seldom disgruntled. Roasts don't come to the table overdone. Dinners planned for eight o'clock begin at eight. All because Telechron electric time has made it almost unpardonable to be late for a social engagement!

A Telechron Clock keeps its owners on time. It owes its uncanny accuracy to the Telechron Master Clock in the power house.

By checking generator speeds to keep them constant, Telechron Master Clocks assure accurate time service to the alternating current electric outlets in your home and office. Simply "plug in" a self-starting Telechron Clock and this modern necessity is yours!

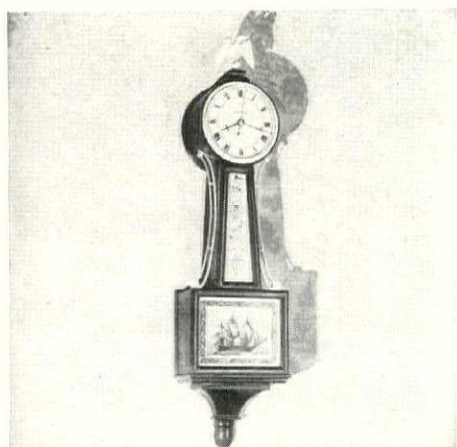
Telechron Clocks and Master Clocks were made for each other. Only clocks marked "Telechron" on the dial can bring true Telechron service.

At a nearby dealer's (listed in the classified telephone directory) you'll find a host of interesting models. Stately grandfather's clocks for hall or stairway. Graceful tambours for the mantel. Quaint banjos for the wall. Attractive uprights for desk or dressing table. All built for beauty and precision.

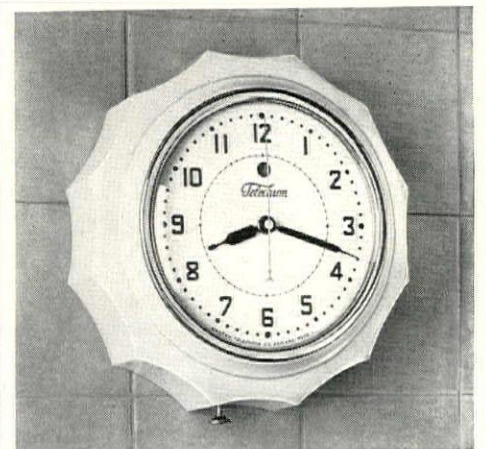
Telechron Clocks are priced most moderately from \$9.75 to \$55. The Revere Clock Company of Cincinnati, Ohio, manufactures distinguished chiming clocks with Telechron motors, priced from \$40 to \$1200.

★ Telechron is the trade-mark, registered in the United States Patent Office, of the Warren Telechron Company.

WARREN TELECHRON COMPANY
ASHLAND, MASSACHUSETTS



» Banjo—Mahogany. Glass panels. 20½" high. \$19.75 «



» Hostess—For the kitchen. Moulded case. \$9.75 «

Telechron



A man wants leather about him

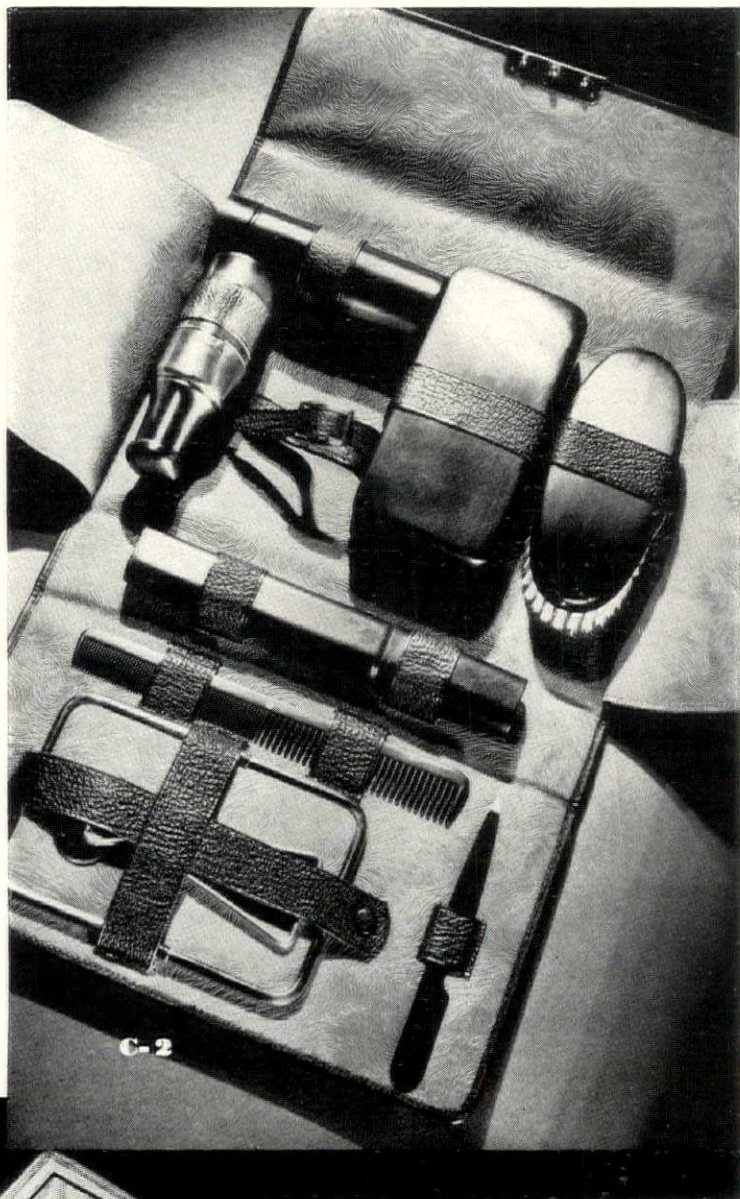
IT IS an old truth that the things we have around us make us largely what we are. The books we read, the friends we share, the disposition of our leisure hours . . . these, in their aggregate, mold and shape our lives.

And perhaps nowhere is environment so unmistakably revealed as in our personal belongings. Even with clothes (which do *not* make a man, but express his taste) good breeding has its influence. And breeding is even more apparent in the accessories with which a man surrounds himself . . . a toilet case, in tawny ostrich skin . . . a slim brown bill-fold, monogrammed . . . a private box for collars.

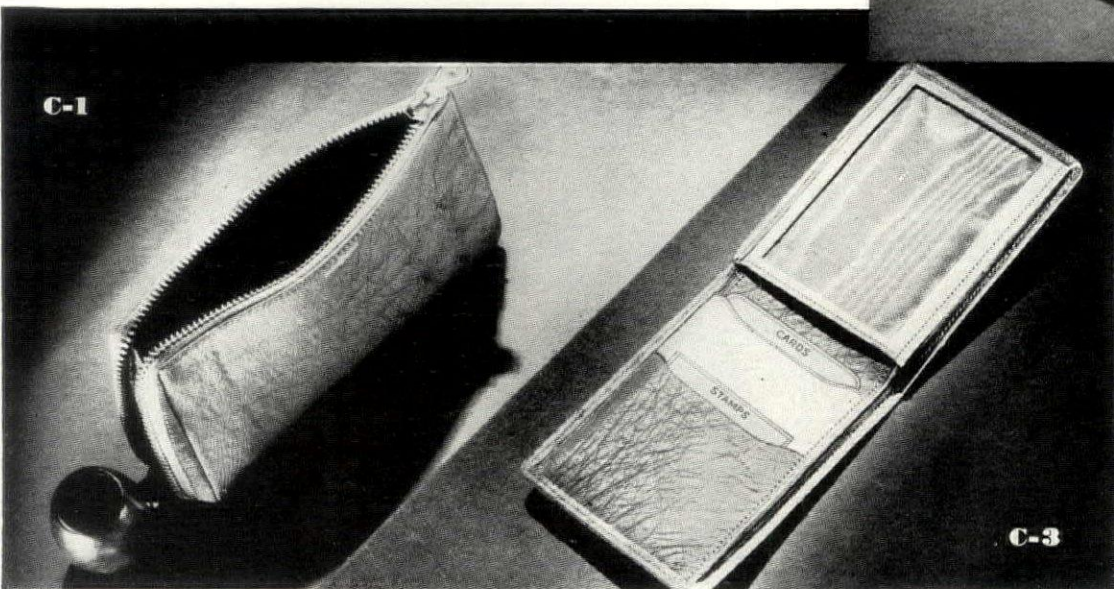
It is for this reason, undoubtedly, that so many cultivated people choose to own articles of fine leather. And leather especially becomes a man. He likes to run his fingers over its stubborn surface . . . to smell its honest, leathery fragrance. He knows that a gift of fine leather belongs with books and dogs and a gun. There is an intimacy about it that he treasures.

Frequently, such men govern their purchases of these articles by the presence of a tiny golden keystone R. That imprint, the seal of a high tradition, is to be found upon every piece of fine leather manufactured by C. F. Rumpp & Sons, Inc., of Philadelphia. In a word, it is your infallible assurance that the gift is good . . . pre-eminent because of beauty, taste, and character.

C. F. Rumpp & Sons, Inc., manufacture fine leather articles of every description, excepting luggage. They may be had at department stores, jewelers, stationers, leather goods stores, and haberdashers.



C-2



C-1

C-3

C-1 . . . a pipe and tobacco pouch, the latter closed and opened with a slide fastener. In black and brown goatskin, pigskin, and ostrich. Patent applied for.

C-2 . . . a toilet case, of cowhide, leather lined, with bronze locks or gilt locks, dependent upon the choice of black or brown leather.

C-3 . . . a bill-fold, of ostrich skin, lined throughout, with compartments for identification cards, stamps, and business cards. With or without gold corners. The bill-fold also may be had in an assortment of beautifully grained camel and seal leathers.

C. F. RUMPP & SONS, Inc.



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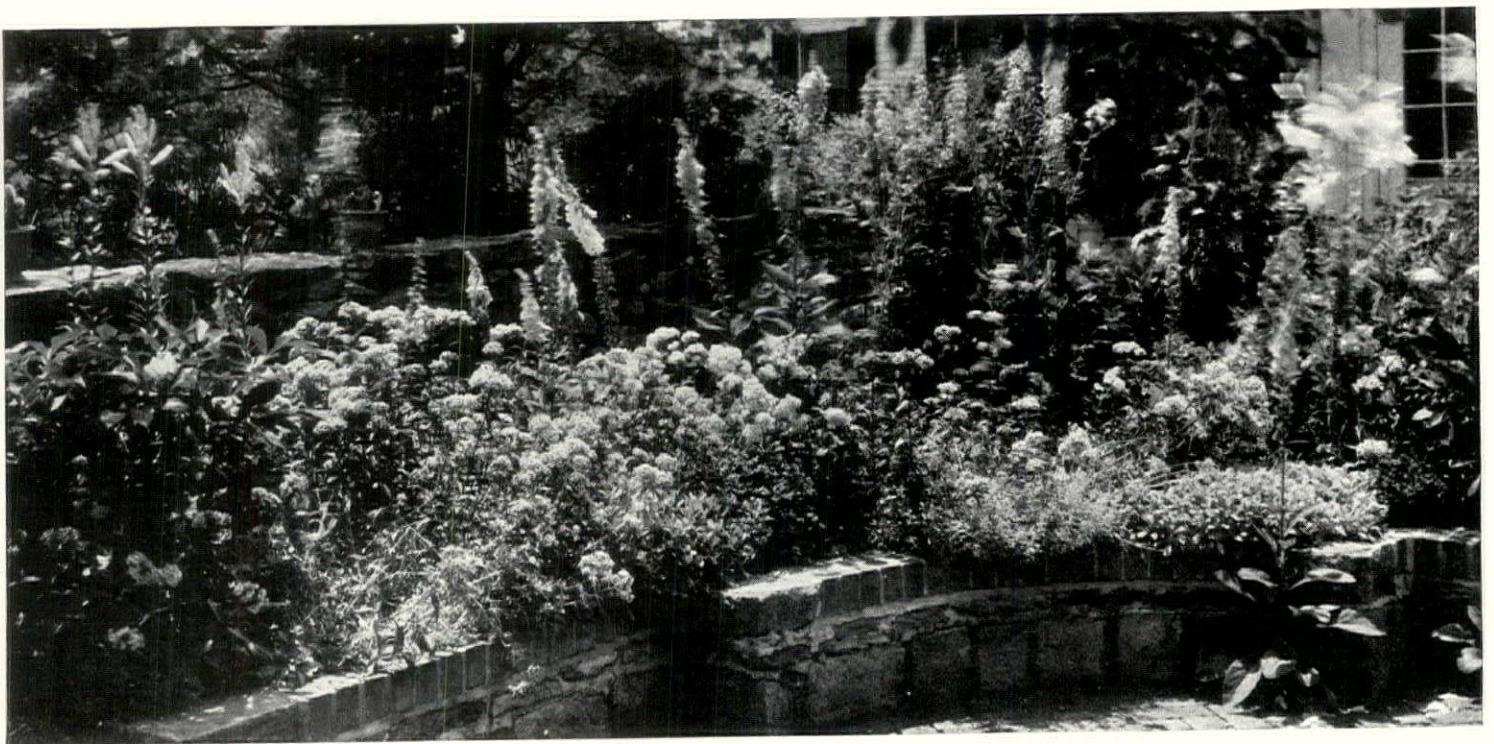
THE GARDEN DOOR OPENS

Soon frozen lumps of lawn will thaw into welcome green, and gunny-sack cowls will be stripped off the rose-bushes . . . soon red and yellow sparks of tulips will burst into flame under the May sun. . . . When you've opened the garden door for the summer—let it open on a world of bloom that lasts till the frosts of Autumn. Clouds of roses, dashing brilliant zinnias, strange varieties of lilies from distant lands—House & Garden will tell you how to plant and care for every flower . . . how to grow every kind of garden.

House & Garden will help you plan your whole gardening season—so there'll be no lapses in mid-August when you'd have to blame the heat

for scarcity of bloom. House & Garden will show you garden furniture for lazing under the ever-greens, and the wisest ways to put your garden to bed in the Fall. It will help you make those jaunty summer curtains and slip-covers that seem to grow a garden indoors . . . it will later help you translate summer gaiety into winter dignity in all your household decorations.

House & Garden will not fail you—in the details, or in the important decisions about building, or decorating, or gardening. Send in the coupon to-day for a two-years' subscription. The price is only \$4—a small premium to pay for two whole years of charm and beauty in your home.



2 YEARS OF HOUSE & GARDEN FOR \$4

House & Garden, One of the Condé Nast Publications, Graybar Building, Lexington at 43rd, New York City

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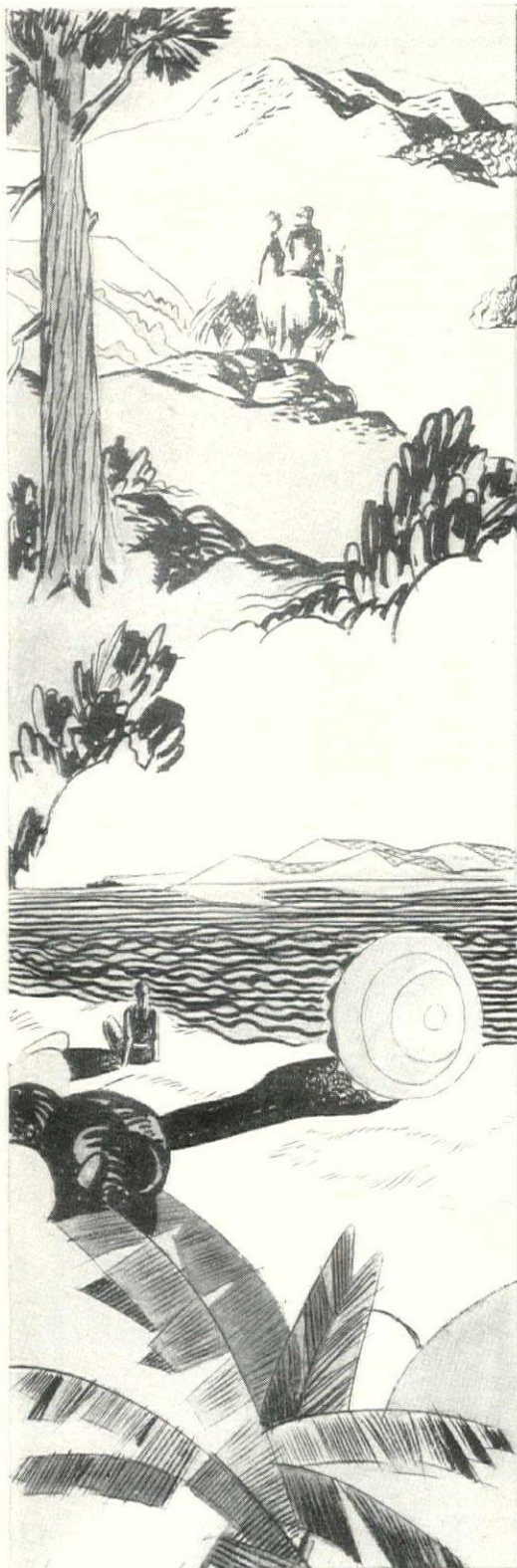


ESTABLISHED more than a century ago, Johnson & Faulkner for generations have been importing Old World fabrics to meet the most exacting requirements of the decorative trade. Decorators and their clients are cordially invited to visit the new Johnson & Faulkner Building, and to inspect, under ideal conditions, a comprehensive display of every type of high class fabric required in the decoration of the modern home.

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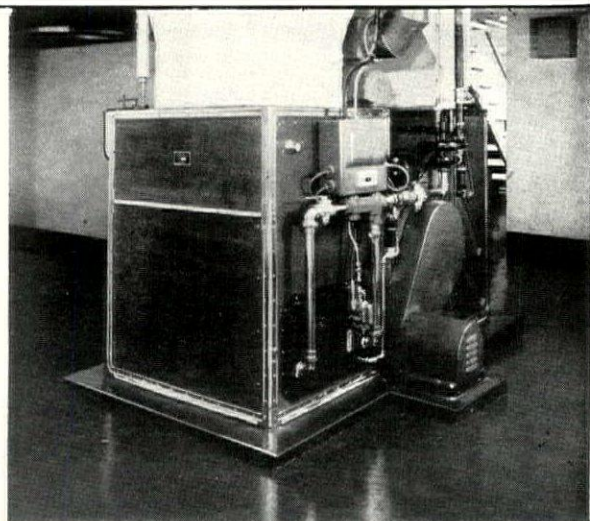


A typical basement game room in a fine home in suburban New York. The Weathermaker is clean itself, it filters dust and dirt out of the air in your home.

You can't really enjoy a fine home if the air is dry, stuffy, and depressing. The Weathermaker gives you the clean, stimulating, comfortable air which comes from controlled humidity, proper temperature and uniform circulation.

• • •

The Weathermaker is automatic in operation. It comes in sizes for all homes. Ask your architect about it.



All winter long you can have in your home the fine, bracing air that you enjoy when you play on the famous golf courses of the world.



RIGHT IN YOUR WINTER HOME

you can breathe the air others must travel to find

THE best salesman for the hotels of Florida, California, and the Riviera is the old-fashioned, stupid heating system. Warmth does not make comfort when it fills the home with hot, dry air which sucks the moisture from everything it touches. Such heating dries your skin and makes you feel uncomfortable. Nasal passages are robbed of resistance to colds and worse. Your whole body is devitalized, and you feel chronically mean and run down.

So you begin to yearn for the tonic of Lake Tahoe, the sunny stimulus in the blend of sea and mountain ozone of the Maritime Alps—for Aiken or Miami, Bermuda or White Sulphur. It is not just a warm sun that you seek when you leave the luxury of your home for a southern pilgrimage. You are being driven to a spot where the air is clean and bracing.

No resort ever became popular that could not boast of fine air. No home is truly comfortable without it. You can, if you wish, breathe all winter the air of mountain tops and moors and piney wilderness, right in your own home.

You will have to read a little book to get the whole story, but we have room for a brief digest. The secret of stimulating, health-giving air is a combination of the right temperature, the right amount of moisture, the right amount of circulation, and freedom from germ-laden dust.

That is exactly what the Carrier Weathermaker provides. The Carrier Weathermaker does not stop at being an efficient heating system. It begins at that point. First, it cleans the air. Then it heats the air to the desired temperature. Then it puts into the air the amount of moisture that makes you feel at your best. Then it circulates this clean, warm, moisture-laden air throughout every room in your house. In every part of the house there is comfort. Your head is never hot while your feet are cold. Rooms never get stuffy.

Because the humidity is controlled, fine furniture and rugs do not become dry. Priceless antiques are not ruined. The piano does not require constant tuning. Costly panelling does not shrink. Walls do not crack and destroy decorations.

Where health is guarded by the Weathermaker, colds are rare.

Isn't that promise enough to cause you to send for a book?

Of course, the Weathermaker sometimes costs more than an ordinary heating system. The additional cost might be as great as that of a modest vacation to some place where the air is good. It might equal the cost of constantly repairing furniture and keeping the piano tuned. It might be as much as you have been paying doctors, nurses, throat specialists, and hospitals.

But those who have installed the Weathermaker are enthusiastic in their agreement that it is worth all it costs.

At least send for our book—free, of course—and get the whole story about this modern, sensible way to keep well and comfortable in winter.

Carrier Corporation

Weathermakers to the World

Everybody is familiar with the Carrier systems of Manufactured Weather in the Capitol at Washington, in Macy's store, New York, and other well known buildings as well as in thousands of industrial plants. The Carrier Weathermaker is a system for heating

and conditioning the air in homes, developed and perfected by Willis H. Carrier and his associate engineers.

Ask us for names of the architects and the home owners in your vicinity who have installed this greatest of all modern comforts.

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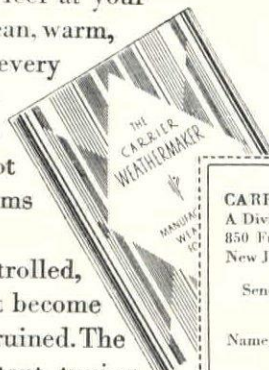
Send me FREE booklet, "The Carrier Weathermaker."

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Have you ever been without HOT WATER?



THE CONVENIENCE of hot water is taken for granted...until something happens—usually to the tank. For years it has been generally recognized that the service given by hot water systems has been limited mainly by the durability of the metal from which the tank was made. It has been common practice to use tanks made of rustable metal which did not last as long as the purchaser had a right to expect.

Well-made copper tanks have been used for many years with entire success; the principal objection being their higher price.

Now, hot water tanks are being made of a new metal—Everdur, a copper alloy which actually *exceeds* copper in durability and possesses the strength of steel. Everdur is easy to weld; making possible, for the first time, volume production of rust-proof tanks at moderate cost.

The soundness of welded construction was demonstrated by a leading tank manufacturer. Two welded Everdur tanks, taken at random, were subjected to a test in which the internal pressure was regularly alternated between 0 and 150 pounds per square inch, simulating the extreme effects of expansion and contraction encountered in ac-



tual service. The test was carried on for more than one thousand hours—equivalent to forty years' service. At the conclusion of the test, the tanks were critically inspected and found to be in perfect condition.

Tanks of Everdur are available for all types of hot water systems in general use. Whichever type is selected, the durability of an Everdur tank makes its somewhat higher first cost a wise investment . . . both from the standpoint of money actually saved in repairs and replacements, and of freedom from annoyance and inconvenience.

For further information address The American Brass Company, General Offices: Waterbury, Connecticut.

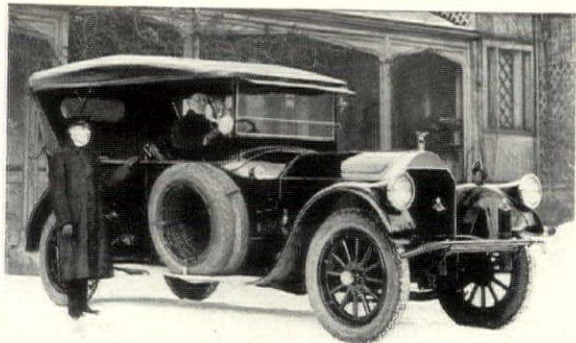
FOR DURABLE TANKS

EVERDUR

A NEW ANACONDA METAL



THE AMERICAN BRASS COMPANY • WATERBURY • CONNECTICUT



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of the former Governor and his family since 1917

PIERCE
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The Convertible Sedan of Group B . . . \$3650 at Buffalo

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What community today is without its ten- or twelve- or fifteen-year-old Pierce-Arrows . . . still superbly patrician, still rendering distinguished service to the original owners? Therein lies the deepest-rooted, most foundational, of all Pierce-Arrow characteristics—a quality that has been called *survival value*.

Because an essential part of its beauty is in its character . . . a part that is unchanging . . . the Pierce-Arrow of yesterday, or of a decade ago, finds complement in the smartest of today's models. And thus a great Pierce-Arrow fundamental becomes also a fine safeguard for each Pierce-Arrow owner's investment.

Twenty-nine New Models . . . with *Free Wheeling* . . . from \$2685 to \$6400 at Buffalo. (Other Custom-built Models up to \$10,000.)



**No other sheets so cool, so fine, so sleepy-smooth*

You will find that the pastel shades of Wamsutta sheets and pillow cases harmonize most effectively with the beautiful colors of North Star Blankets.

If you have ever slept between Wamsutta sheets, with a Wamsutta pillow case as smooth as a snowdrift under your head, you'll know that this* is a true statement. But if it challenges your belief, please don't take our word; just compare Wamsutta with other sheets at any department store. The feel of the fabric in your fingers will show you the almost invisible difference in texture which has been spun and woven into this incomparable sheeting. What you can neither see nor feel, though, is the amazing strength of Wamsutta . . . but good hard wear and washing will prove that to you soon enough.

WAMSUTTA MILLS, New Bedford, Massachusetts

NEW YORK SALES OFFICE, 180 Madison Ave.

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PERCALE SHEETS
AND PILLOW CASES
THE FINEST OF COTTONS

SHEETS & PILLOW CASES

"... Now let me tell you about *my* building operation"—Women who live in Celotex-insulated homes are the very best salesmen we have. We cheerfully credit thousands of sales to tea-table conferences like this one.

Why houses that men build today succeed as homes for women

A LOT of the credit belongs to wives, as every woman knows. For they learn and remember a great many facts that husbands have learned and forgotten.

Take insulation, for instance. Your husband knows he wants an insulated house. The architect and the contractor wouldn't build any other kind nowadays.

Probably he's ready to agree that Celotex "is the best all-round



insulation in the world"—for any one of several thousand building authorities might have told him so.

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You know too well the weakness of the old story—"something just as good." And we're sure you'll remember such sound and practical buying points as these:

Celotex does the main job to perfection—shuts out winter cold and summer heat—makes it easy to keep comfortable with much less fuel, no matter what the weather is doing.

Celotex is permanent—can never settle or sag—provides just as effective insulation after ten years as it does the first week.

Celotex takes the place of other building materials, so that you secure insulation at a very slight additional cost.

Celotex reinforces walls and roofs—is neither too rigid nor too flexible to provide the utmost structural strength.

Celotex has a toughness that gets it into the house in first class condition.

This could go on indefinitely. We'll finish by saying that this all-round excellence of Celotex has caused it to be chosen and used in over 325,000 homes and by more than 25 makers of refrigerators.

The rest of the facts and figures are waiting for you—in the capable hands of your own lumber dealer.

Get in touch with him, now. He'll give you your copy of our new booklet "Celotex Cane Fibre Insulation."

If you buy your new home, remember to look for the Celotex Sign—your assurance of greater home comfort.

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For plastered walls and ceilings, there is Celotex Lath—the insulating plaster base, designed with beveled, overlapping joints that reinforce against plaster cracks and eliminate lath marks.



SOME WOMEN

CAN GET
ALONG

They don't mind if their clothes look a bit frumpy. It doesn't seem important to them to keep their skins fresh and their faces young.

They don't really care whether their dinner parties are smart, or whether their houses have charm.

A hat is a hat to them—or, more accurately, a head covering. They don't realize that keeping up with fashion means keeping up with the times, keeping young in spirit as well as in looks, keeping vital and interesting.

Usually, their husbands feel differently about these matters, and, almost always, their children are embarrassed. Only their acquaintances really enjoy this attitude—as a never-failing subject of gossip.

If you're one of these women, there's no need to read on. But if you're any other kind, you'll gain immeasurably by signing the coupon below. For, as a result, Vogue will come to your door twice a month, bringing information on every phase of fashion, from hem-lines to hair-lines, from sables to salads. You'll find Vogue helpful in telling you what other smart women do, and incredibly stimulating in spurring you on to efforts of your own.



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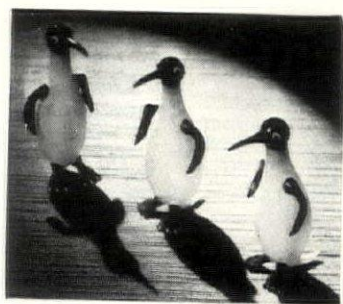
VOGUE, Graybar Building, Lexington at 43rd Street, N. Y. C.

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THE new garden furniture is both good to look at and extremely practical. What with all the waterproof and sunfast fabrics that are available, the cushions are now as durable as the framework itself. Ruth Collins has recently developed a number of pieces for porches and gardens that incorporate many features of contemporary design. The framework of one of the chairs which she is featuring is of iron and in the surface of back and arms has been cut an effective thistle design. The seat is of reed, woven in an open, square pattern that prevents the retention of moisture—a desirable feature in any furniture to be used out-of-doors. To match the chair there is a glass-topped table which may be had in three shapes—round, square or hexagonal. This set can be finished in any desired color, with the chair seats of natural reed. The pieces we saw were a particularly good shade of green. Another product of the same establishment is an observation bench for use beside the tennis court or swimming pool. It is made in three sections, which may be fitted together to form a single bench or used separately, and seats, in all, seven persons. Removable cushions covered in a waterproofed material which may be had in any desired color fit snugly into the iron framework.

FOR the formal garden nothing is more distinguished than a stone or marble piece executed in the classic tradition. Of this type of garden furniture, there is a large and interesting collection to be seen at the Erkins Studios, among which are many copies of decorative Italian pieces. A characteristic stone vase, for garden wall or terrace, is ornamented in bas relief with a procession of dancing cherubs and garlanded flowers. The familiar egg and dart motif and the acanthus leaf are the ornamental features of a graceful marble fountain, in the center of which a small boy rides astride a dolphin. Here may also be found numerous pieces of Florentine pottery whose delightfully variable tones provide a charming and emphatic background for plant greens. Especially when these crude jars have been filled with Ivy or some other of the trailing plants do their deep cream and light red shadings become the most effective.



Sheraton Kidney Shaped Dressing Table

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Telephone REgent 4-0398

Sandwich Glass in Medallions

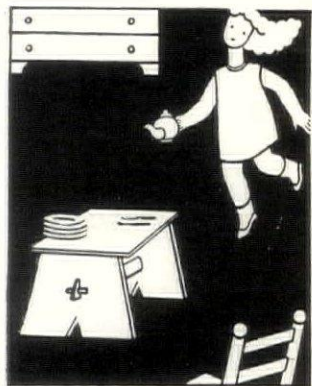
The brilliance and clarity of Sandwich Glass are proverbial, but its variety and purity of color are little known.

You will be surprised and delighted to see jewelled clusters of fragments wrought into small medallions to be hung in windows.

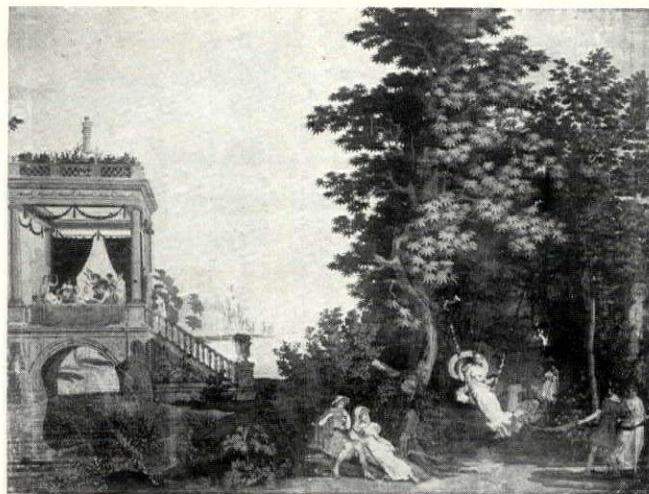
They range in price from eight to two hundred dollars. They are designed and made by

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DISTINCTIVE GARDEN AND TERRACE ORNAMENTS IN POMPEIAN STONE, MARBLE, BRONZE, POTTERY, ETC.—FOUNTAINS, BENCHES, WELL-HEADS, VASES, STATUARY, ETC., ARE ON EXHIBITION IN OUR STUDIOS.
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POMPEIAN STUDIOS
30 East 22nd St., New York

FURNITURE of wicker is traditionally associated with garden comfort. A small kidney-shaped settee of natural color rattan, seen at the Grand Central Wicker Shop, would be equally usable in a garden, sun room or on a terrace. The cushion, which is covered in green weatherproof fabric with a black stripe is the sole note of color on this piece. Among the new garden furniture sponsored by the Sons-Cunningham Reed and Rattan Company is the Sleepy Hollow Group, made entirely of rattan in the natural color, banded in French enameled cane in brilliant hues. These vivid notes of color are repeated in the tailored cushions which are covered on both sides with a vari-colored, flowered English cretonne.

A NEW chair with remarkably comfortable properties, due to its low back and long, low cushioned seat, is the latest product of Edward R. Barto and Company, a firm notable for its attractive collection of outdoor furniture and accessories. This chair comes in wand willow or in reed, with the cushion covered in a coarsely woven material in tones of tan and warm red.

IN a corner of the new Chintz Shop of Agnes Foster Wright, a family of gold fish disport themselves in the cool green waters of a stone basin and unwittingly form the nucleus for an assemblage of garden furniture and accessories that are both distinguished and different. There is a modern side table of rattan and wood construction, the rattan being in the natural tone, the wood painted a pale cinnamon color. Accenting this neutral combination are bands of black and salmon pink. On this table, a glorified and speckled brother of the fish in the pool, made of pottery, serves as an ash tray, with his finny tail as the handle. To fill some unoccupied wall space in the sun room there is a rustic-looking mirror with wooden frame decorated with a floral design. And for the beauty who gardens, there is a hand mirror of polished steel in an oilcloth case. It was surprising to learn that the charming metal flower baskets seen in this shop once served a Belgian peasant in a much more humble and utilitarian capacity. A small rectangular one



Beautiful canvas screen, antique parchment background, rich in color and decorative effect.

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Charlotte, Michigan, Dept. HG 331

I enclose 10 cents for booklet.

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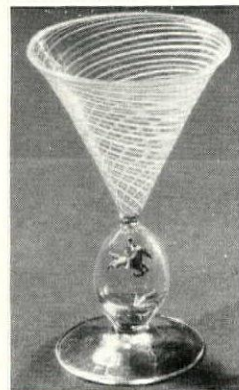


Pent House Terrace designed, planted and decorated by

MARGERY SILL WICKWARE

38 EAST 57TH STREET · NEW YORK

sport cocktail "the rider"



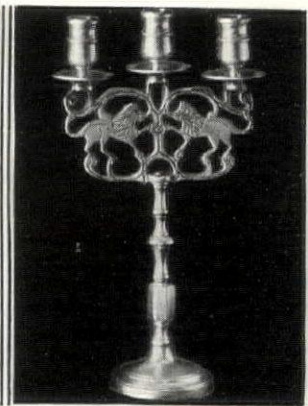
various little horse-men, gayly clad, cavort in the bubbled stems of these charming glasses. The swirls are in bitter-sweet and white, the rest of the glass is crystal. 32.00 dozen.

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DIRECTORY OF DECORATION & FINE ARTS



Quite bewitching are these quaint antique lion patterned candelabra. In polished solid brass, 11½" high x 6¾" wide. \$4.25 per pair or \$2.25 single. Postpaid.

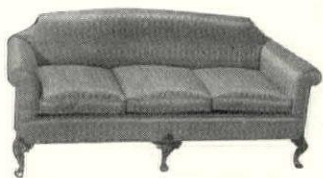
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HEINRICH SHOPS

UTICA, N. Y.

Carlisle Sofa Illustrated Above.
Covered in Damask. \$180.00.

was originally an egg basket, while another, with large perforations in the lid—perfect for arranging flowers—once carried hot coals to keep warm the dinner of some tiller of the soil while he worked in the fields.

FOR those with a penchant for sitting on the ground, Lewis and Conger offer a new, short-legged collapsible bridge table. In the top, which is made of a coral-colored, water-proof material, two zipper openings admit to a spacious pocket where all the incidentals peculiar to the bridge game may be stored.

TEAKWOOD, of historic seagoing fame, is now being used in the construction of garden furniture of the better type by the George McQuesten Company, of East Boston, Massachusetts. The qualities which recommend its use in this capacity are the same through which it has for ages maintained an unrivalled position as the aristocrat of shipbuilding lumber. Unexcelled in strength and durability, teakwood will withstand all the vicissitudes of the most rigorous climate. Since it requires no paint, stain or other finish this wood blends especially well with an outdoor setting. The utter simplicity of the designs is in harmony at once with the ruggedness of the material and the natural setting for which they are intended.

WEATHERVANES are a favorite method of adding an individual and personal touch to the country estate. Nowadays, when it is not so necessary to know from which corner the wind will blow, the chief purpose of this bit of iron, when it is not purely decorative, is the advertisement of the owner's individual hobby or trade. The possibilities for amusing and ingenious developments are well illustrated in a collection of weathervanes made by Arnold and North, Incorporated. For the inveterate golfer there is a silhouette of himself at the finish of a perfect drive, with an admiring caddy in the offing. A full-rigged ship proclaims a farmer who would go to sea. And four of the proverbially wise owls justify their presence by just being themselves.



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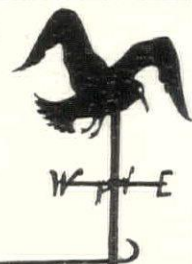
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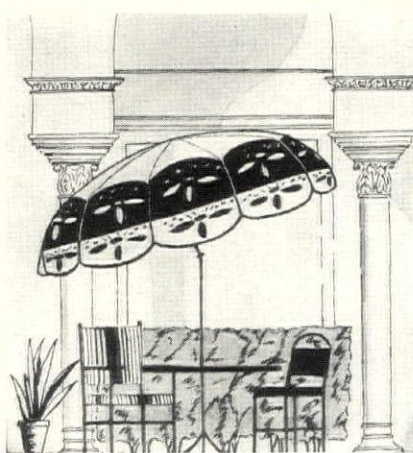
A Gay Fiesta

With peasants in bright petticoats and visitors dressed from the Rue de la Paix, suggests the quaint sophistication of THE DEAUVILLE, a painted bedroom suite. Its charmingly provincial air is accented with the old flower motif used so happily on antiqued ivory or dull red finish.

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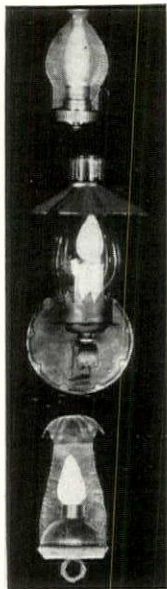
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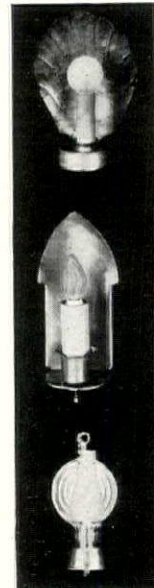
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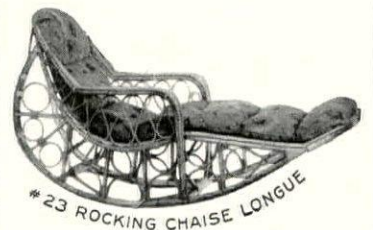
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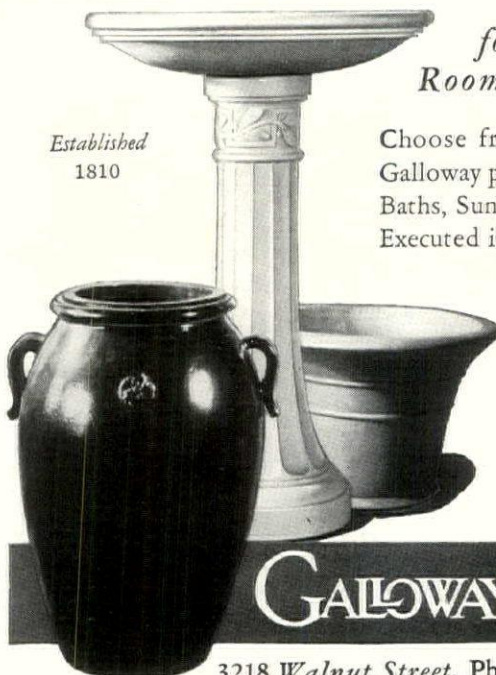
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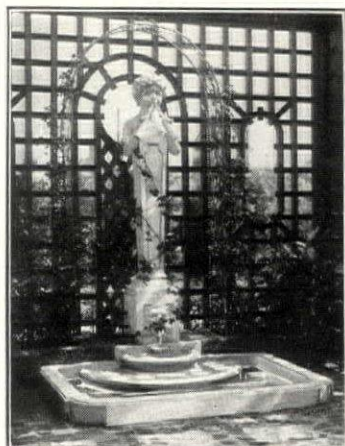


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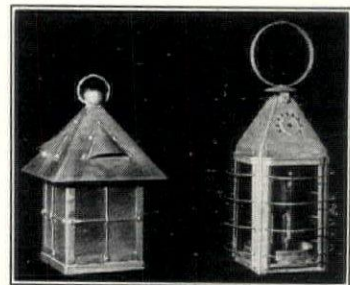
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AMONG the new gadgets for indoor gardening we discovered at Max Schling's is a small watering pot that is as decorative as it is useful. On the body of the pot, which is of copper, are set a slender spout and gracefully rounded handle of brass. This shop also handles a miniature combination spade and rake, designed especially for the cultivation of house plants. This useful article is made of brass and is only 5½ inches in length.

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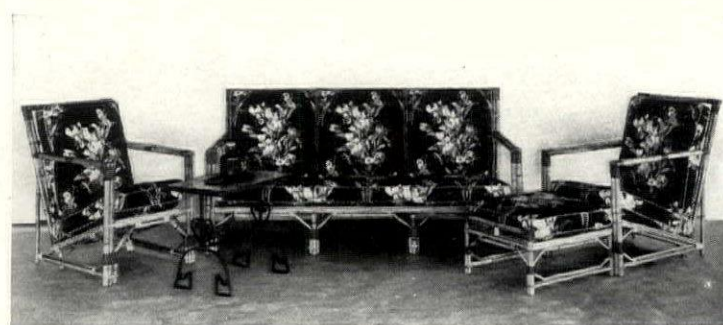
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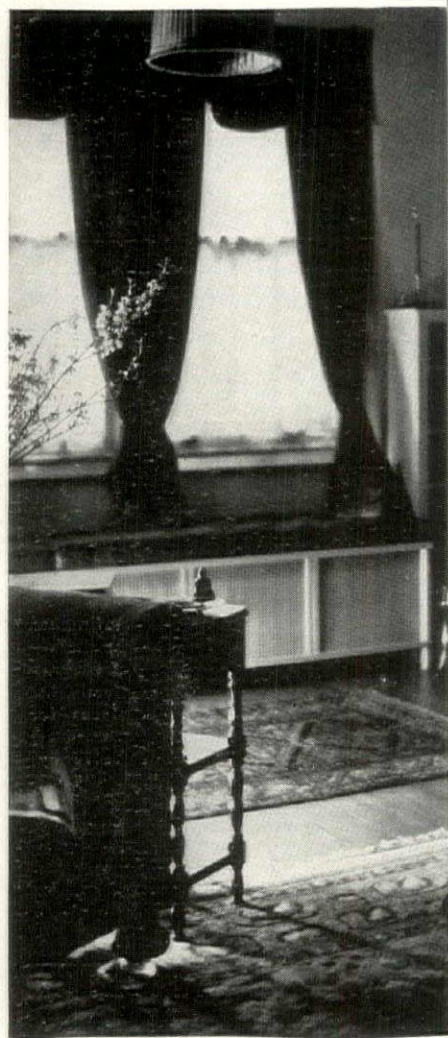
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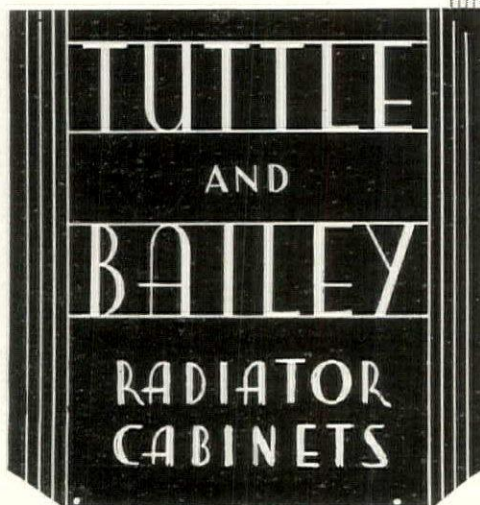
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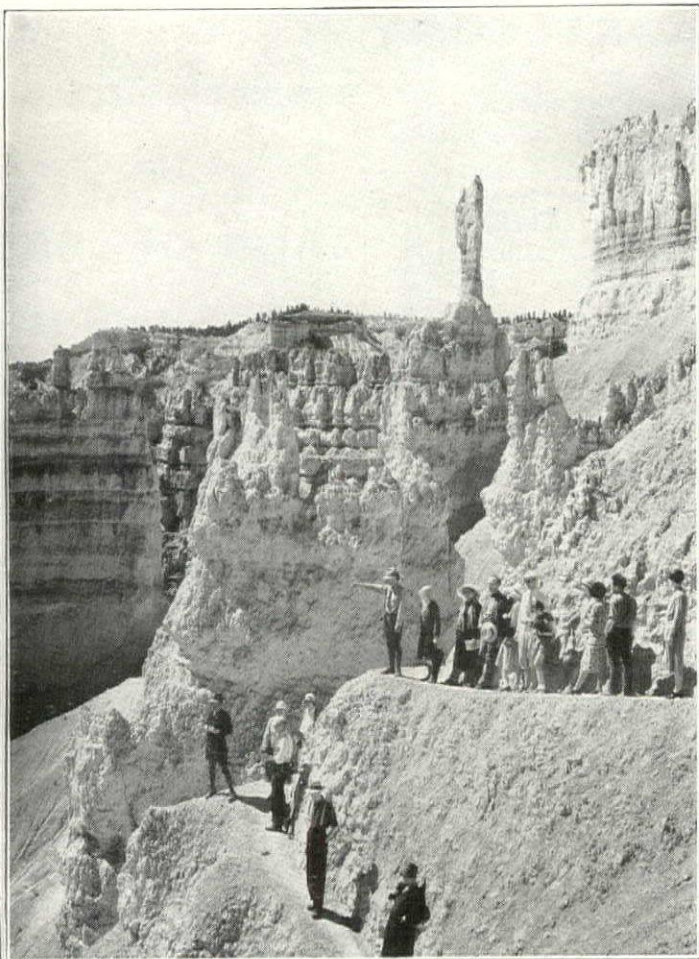
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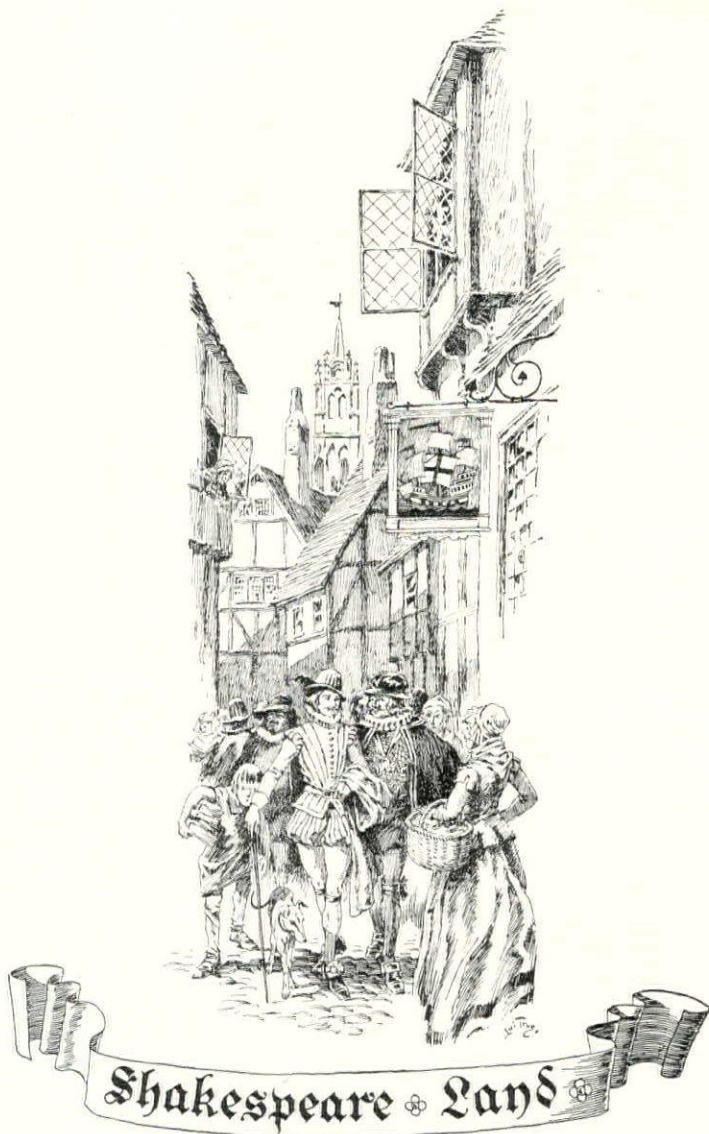
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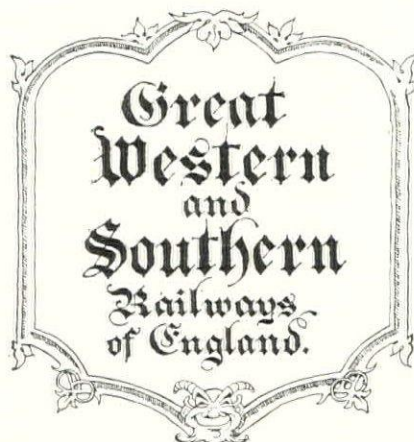
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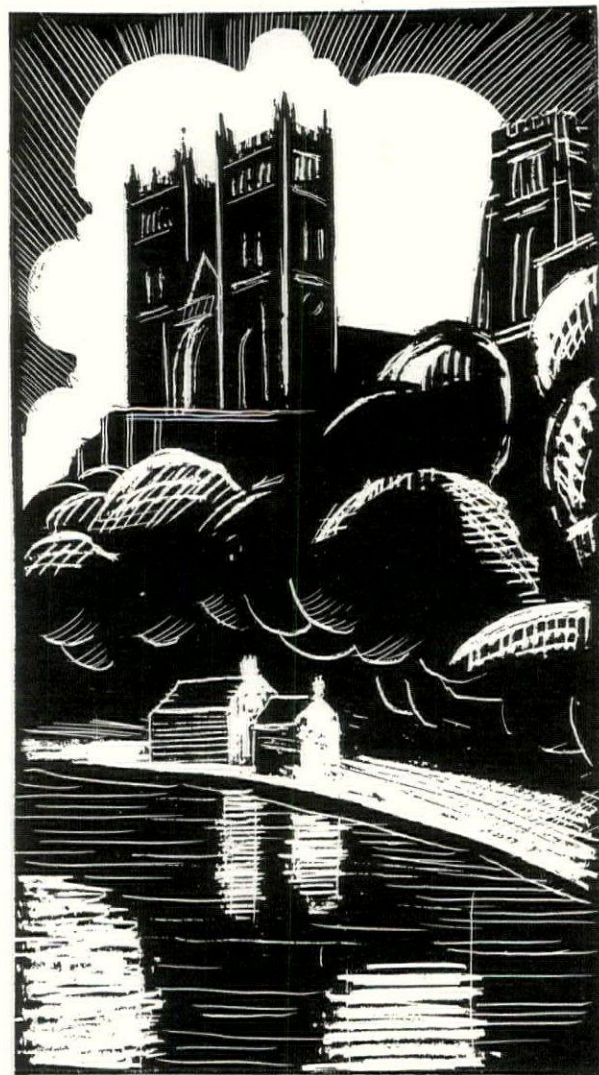
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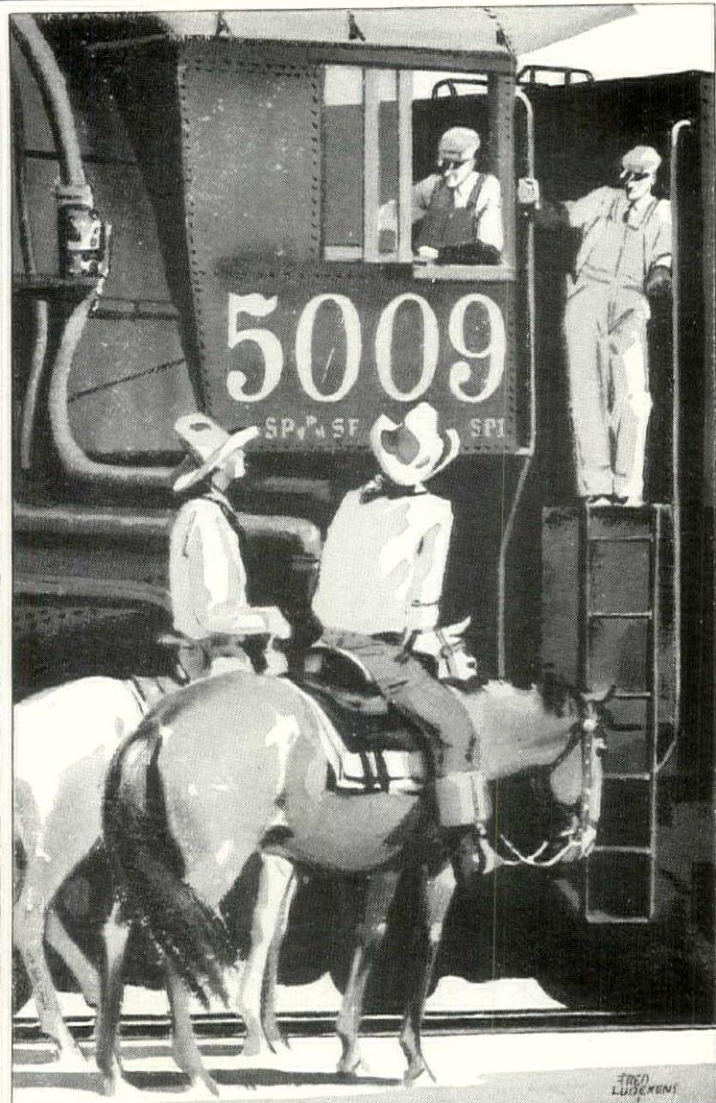
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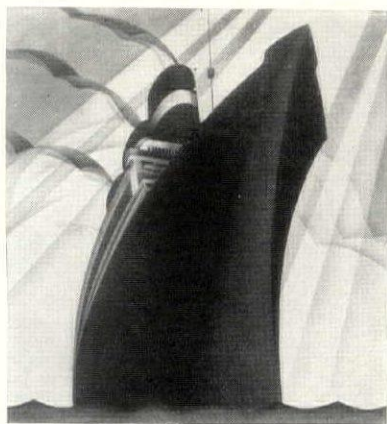
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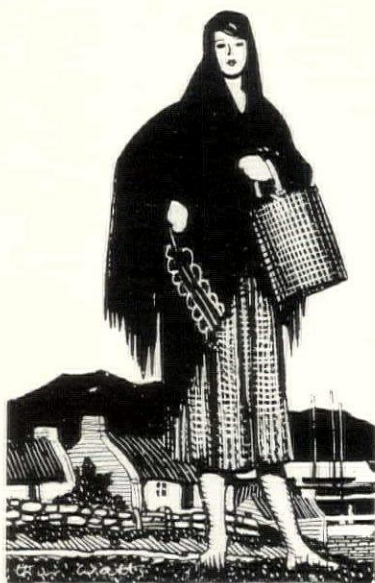
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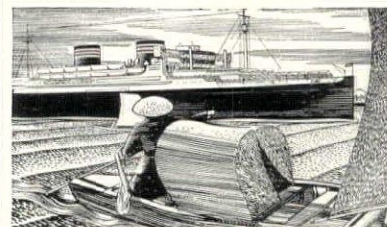
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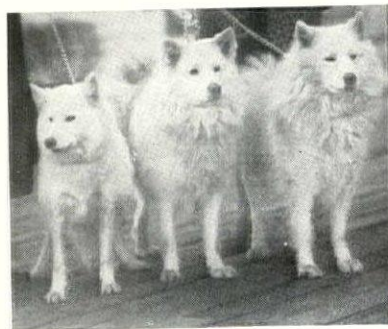
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SAM FROM SIBERIA

Robert S. Lemmon

THIS is a difficult moment. Having decided that the Samoyede is to have his turn in the series of dog interpretations which occupies these columns every month, I am faced with the task of presenting his case within certain specified limits of space.

It can't be done. Nobody can convey within such limits any adequate conception of the merits of this dog from the Far North, that has made such a place for himself among us of milder climes. As a matter of fact, I sometimes wonder whether any number of words, few or many, could do the job fairly. The only complete and convincing story is the Samoyede himself. Anything which can be said of him is rather in the nature of gilding the Lily.

I have been an admirer of this dog ever since his first appearance at the Westminster Show years ago. Experience has served only to confirm the impression then implanted: that his character is as splendid as his own superb snowy coat. For the "Sam" is the epitome of pure beauty inside and out, a dog that you accept without reservations. Watch a typical one for five minutes and you become his friend for life.

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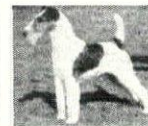
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takable. The Sam returns your gaze squarely, honestly and without trace of calculation. Having nothing to conceal, he is straightforward and sure of his position. There is a deal of the "wide open spaces" about him, yet he is by no means an unlettered, crude backwoodsman.

Closer examination clinches these first impressions. Lay your hand on the dog's shoulders, press down on his back, feel the breadth and bone of skull, chest and legs, and you realize that underneath that gorgeously thick, springy coat are a power and a balance of weight that are no less than perfect. Clearly, it is another case of a fine physique serving as the background for an equally notable character. And the strange part of it all is that the more intimately you know a Sam the more convincing do all these qualities become.

I have heard it said by strangers to the breed that the Samoyede's color is against him—that, whereas he is uniquely handsome when freshly washed, he would show dirt unspeakably. It may not sound reasonable, but the facts of the case are quite otherwise. There is about this dog's coat a peculiar smooth, icy surface which does not pick up dirt like the hair of other breeds, and quite thoroughly clears itself of what soiling does take place. Give a mud-covered Sam a bundle of straw to roll in, and he'll come out of it almost as white as ever. Which is a very real point to consider.

Again, some inexperienced people feel that such a thick coat must entail a lot of suffering in hot weather. Wrong again. For one reason, because Nature automatically substitutes a lighter overcoat every spring. And for another, because a body covering like this is just as good an insulator to keep heat out in summer as it is to keep cold

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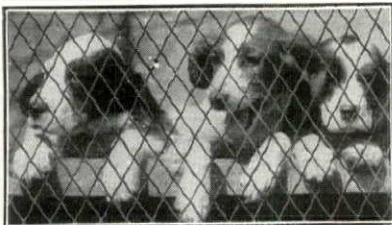
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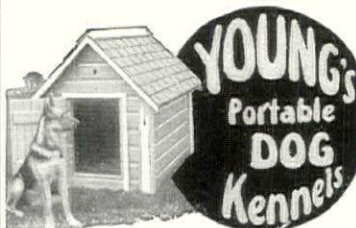
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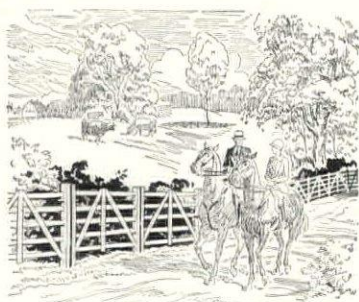
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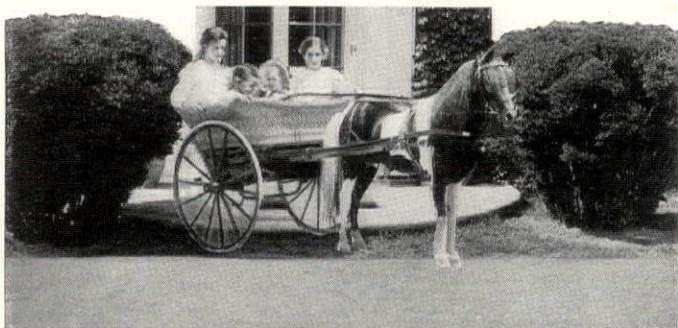
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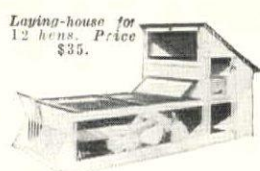
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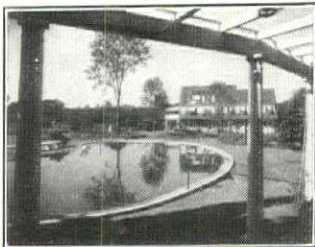
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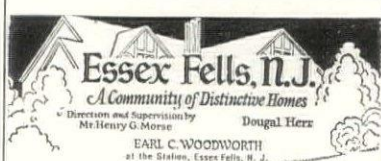
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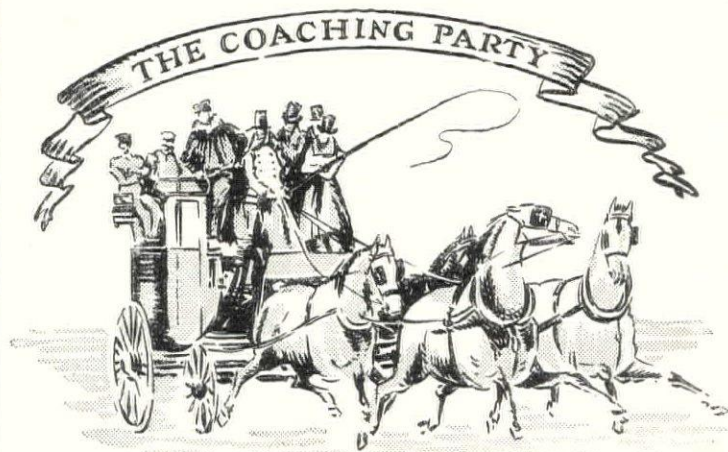
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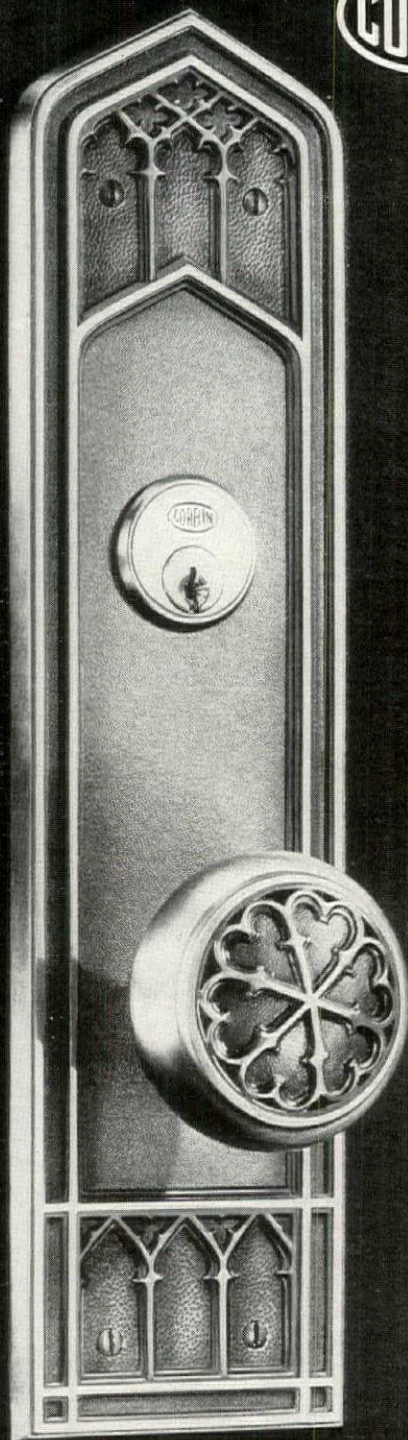
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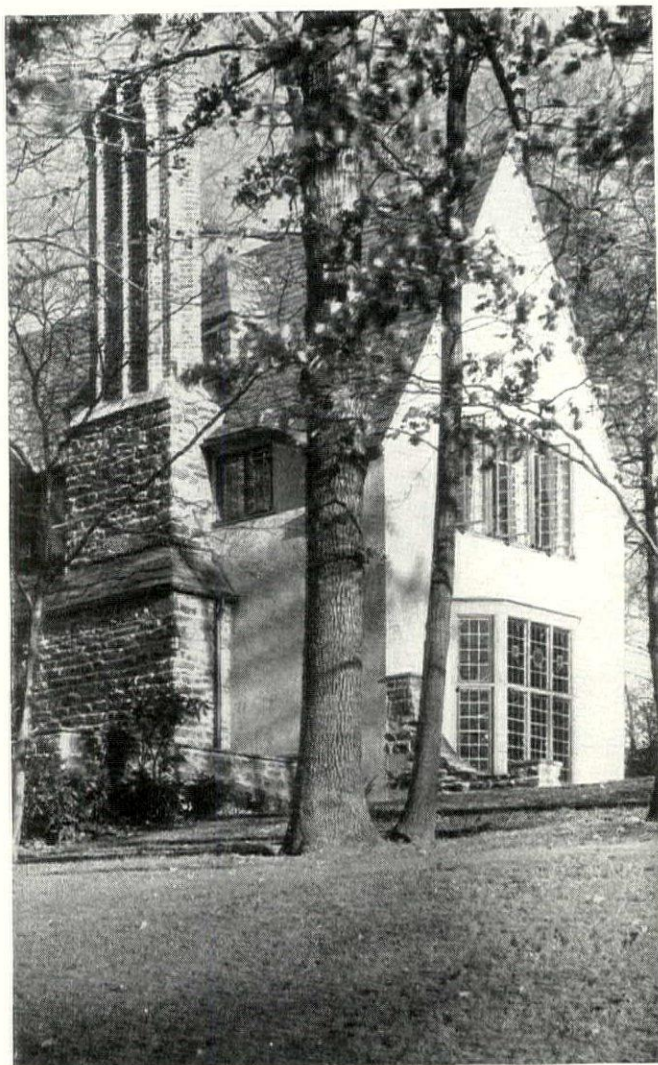
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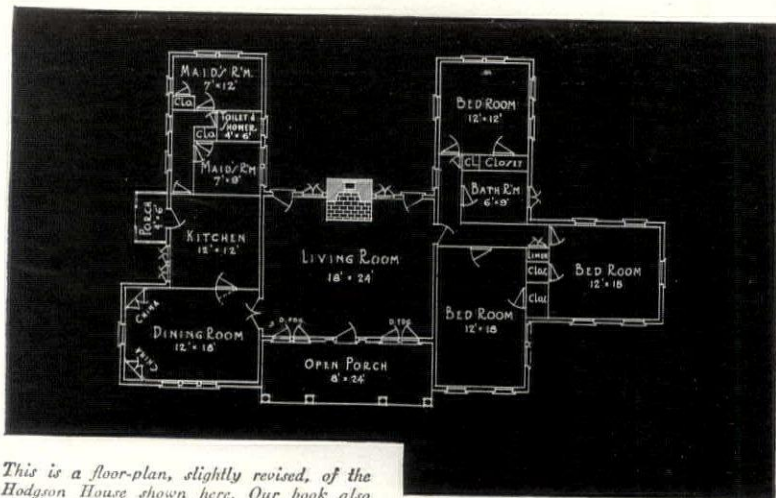
You choose a floor-plan from our booklet; we build your house in sections and ship it to you ready to erect. With a little local help you can have it up in a few days. If you prefer, we will send a construction foreman to handle the job.

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You can see a complete Hodgson House, full-size, at our new New York exhibit—730 Fifth Ave. at 57th St. Similar exhibit at 1108 Commonwealth Ave., Boston. Outdoor exhibits at Dover, Mass., and Sudbury, Mass.



This is a floor-plan, slightly revised, of the Hodgson House shown here. Our book also pictures and prices furnishings and lawn and garden equipment—bird houses, dog kennels, arbors, picket fences, etc.



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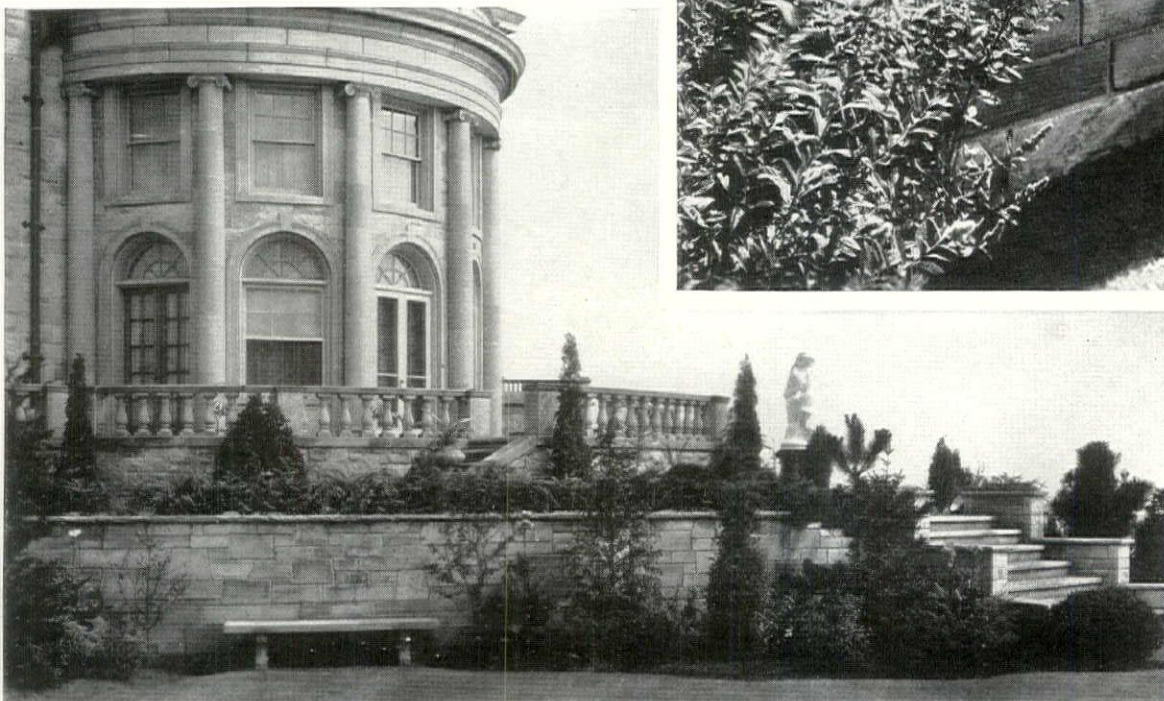
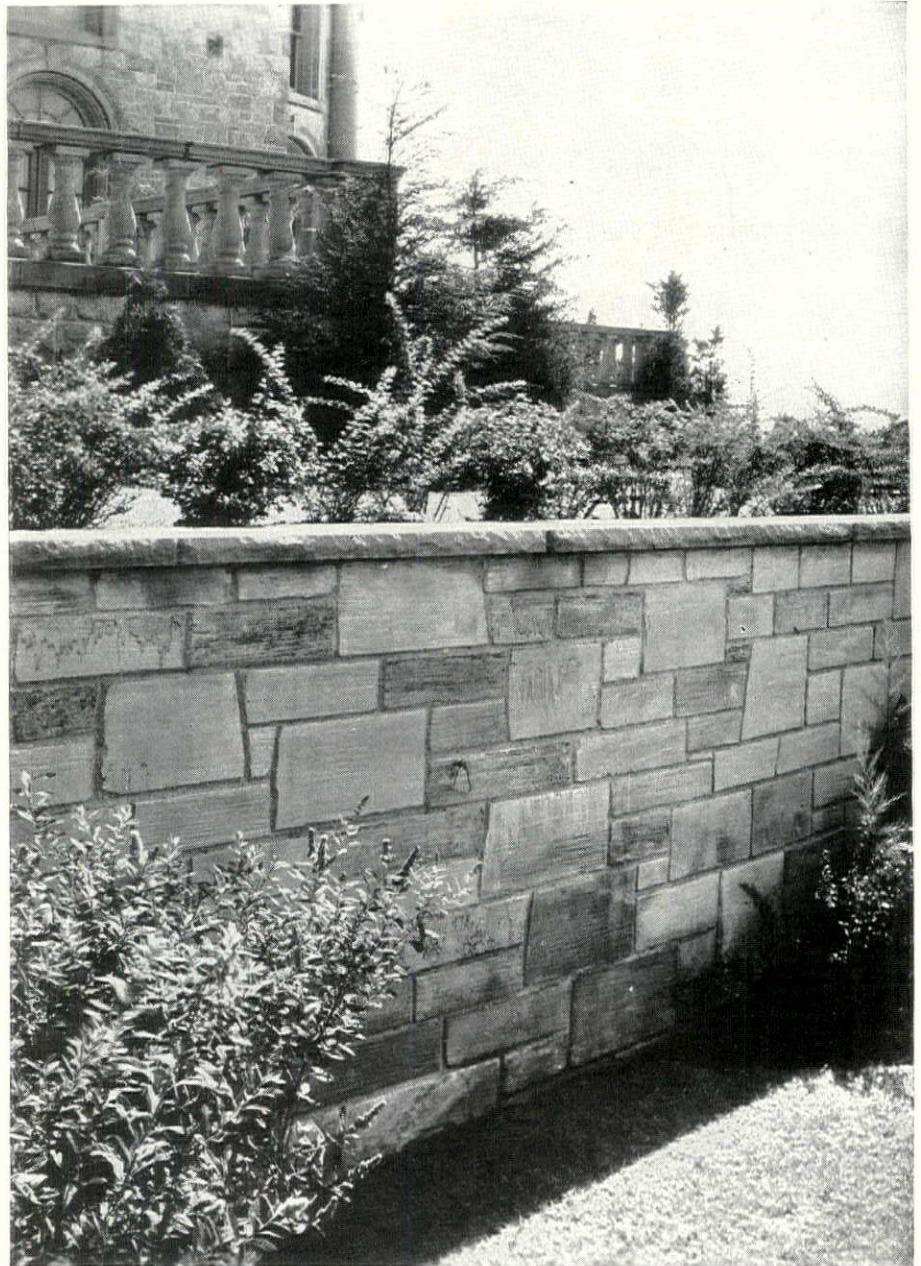
THE vogue of limestone for residential building is causing architects more and more to design with it in view. Thus, they are able to develop to the utmost the many possibilities of this fine material.

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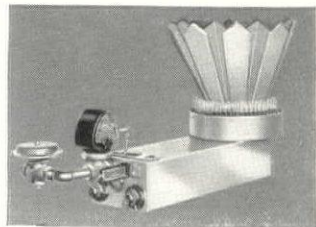
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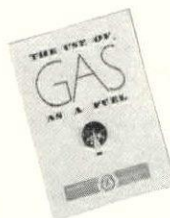
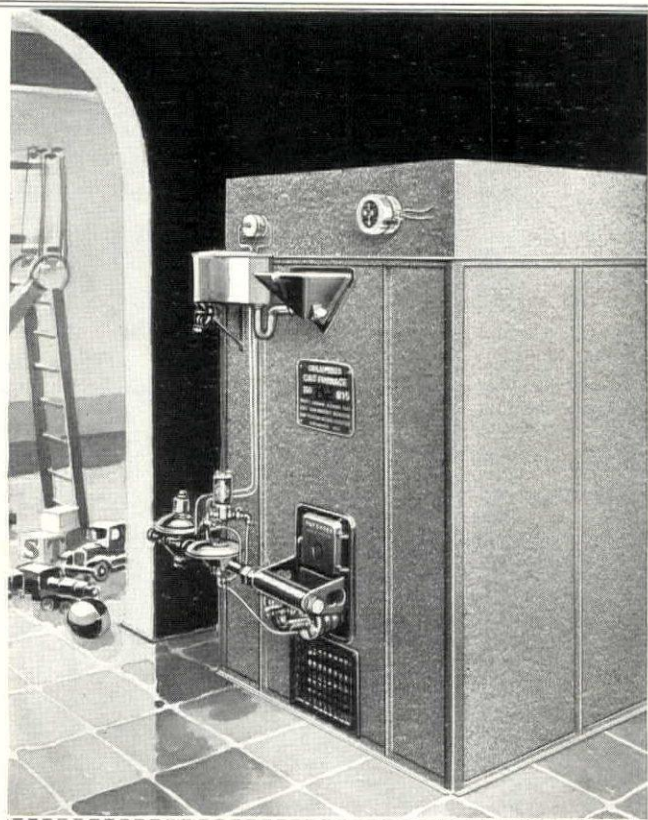
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Among the authentic details which add charm to this Colonial residence is a complete equipment of Sargent Hardware. Richard W. Mecaskey, architect; J. Craig Janney, associate, Philadelphia.

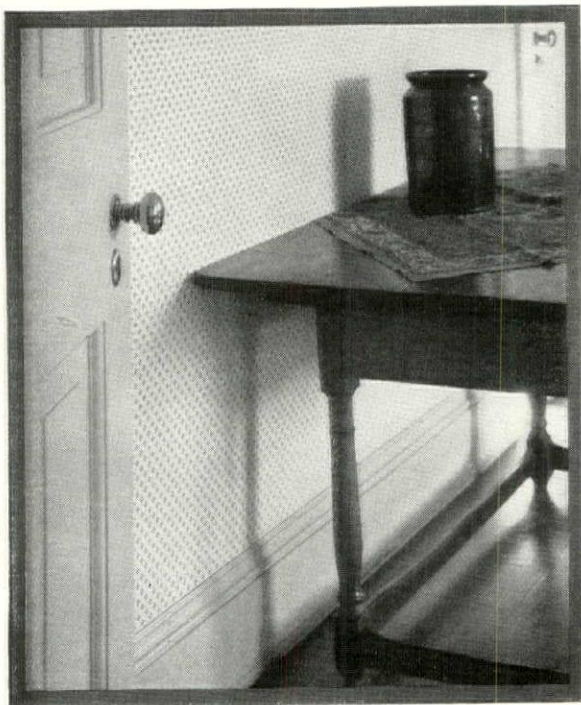
FOR THE DESIRED NOTE OF CHARM

FOR the true home-lover who is thinking of building, few pleasures are keener than those found in poring over plans and in deciding on final arrangements and equipment. And few efforts are more amply repaid. Many years of happiness and complete satisfaction are the reward.

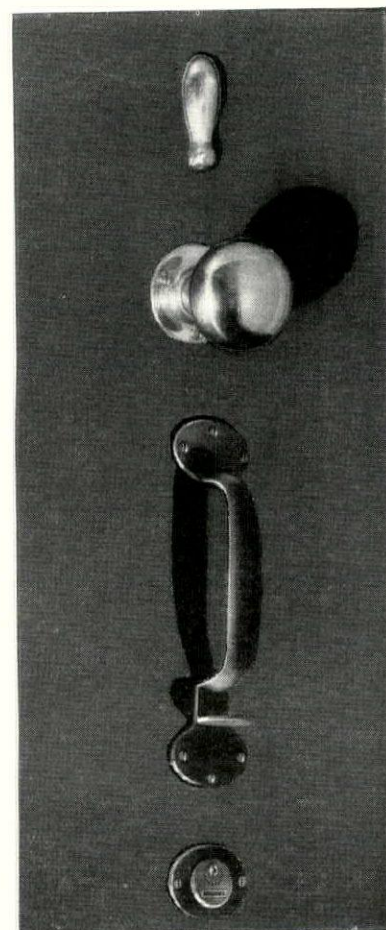
The hardware for your new home deserves special attention in your plans. On

it depends the artistic finish of every room, the smooth operation of every moving part of the building, and the maximum security of your loved ones and your belongings. One hardware purchase is all that is necessary — if you insist on Sargent Hardware. Such equipment is a guarantee of lasting satisfaction. Of solid brass or bronze and the finest precision workmanship, Sargent Hardware assures complete freedom from hardware worries — sagging hinges, doors that will not latch, surfaces that wear and streak the woodwork. With hardware equipment by Sargent, replacements are unnecessary.

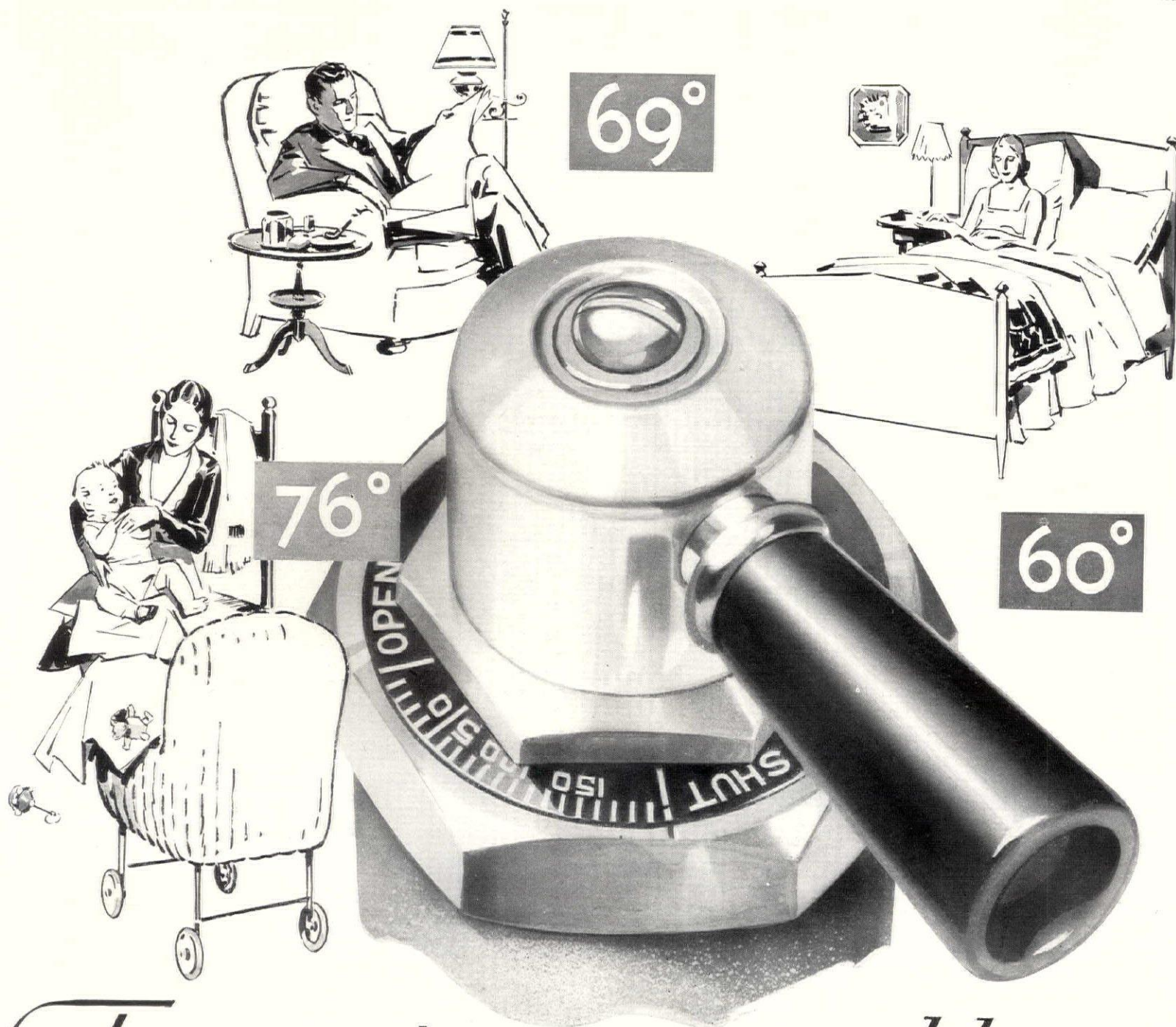
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SARGENT
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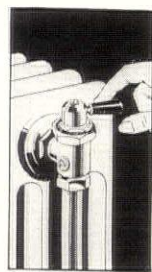


The design of Sargent Hardware blends perfectly with the spirit of this home's furnishings and decoration. The items above are especially appropriate for buildings of this type.



Temperature as you like it

ROOM-BY-ROOM CONTROL AT THE TOUCH OF A LEVER



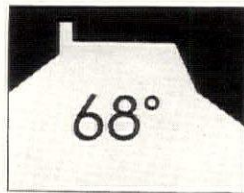
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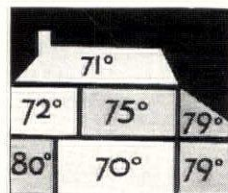
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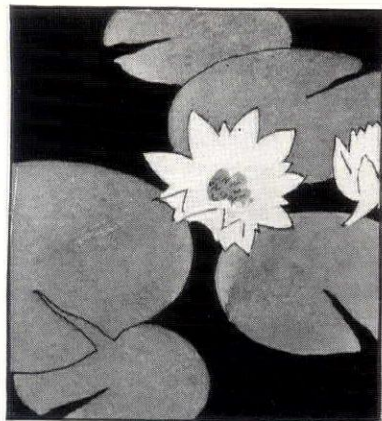
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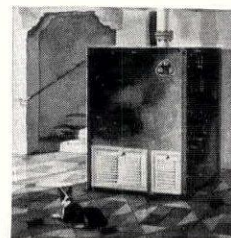
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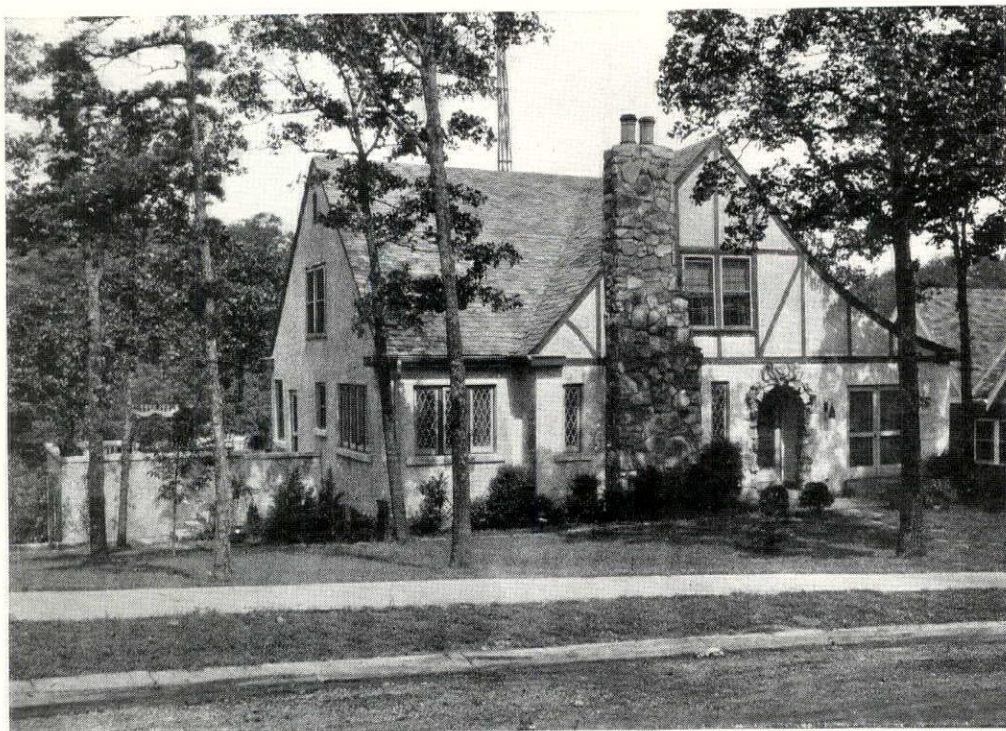
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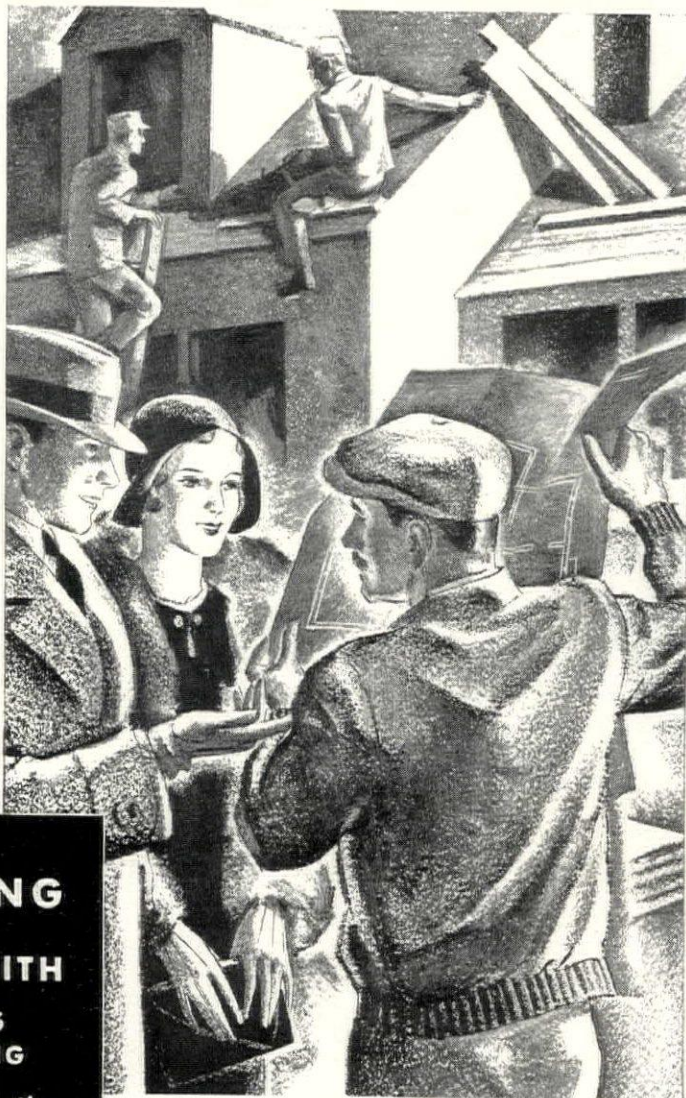
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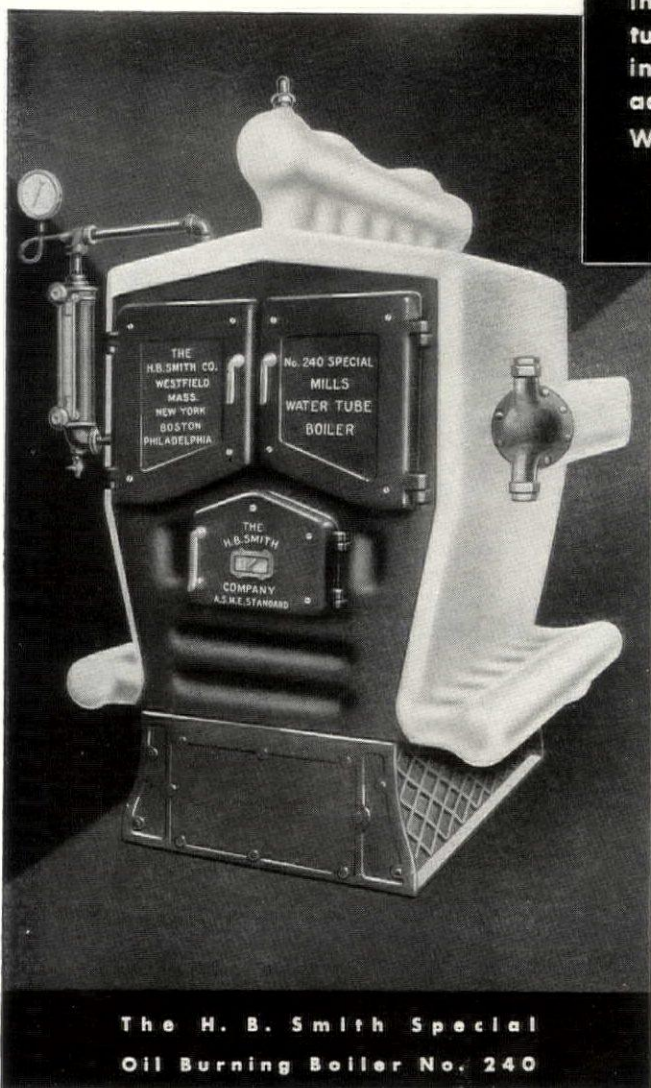


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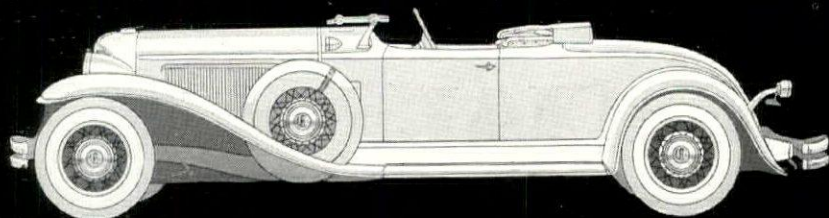
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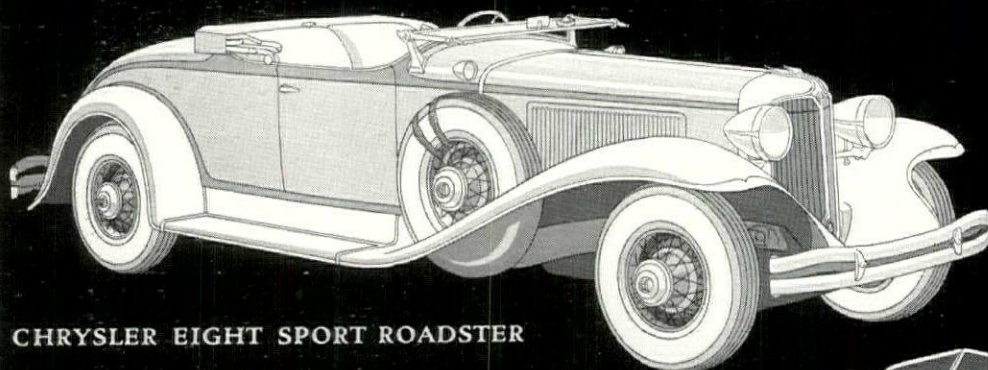
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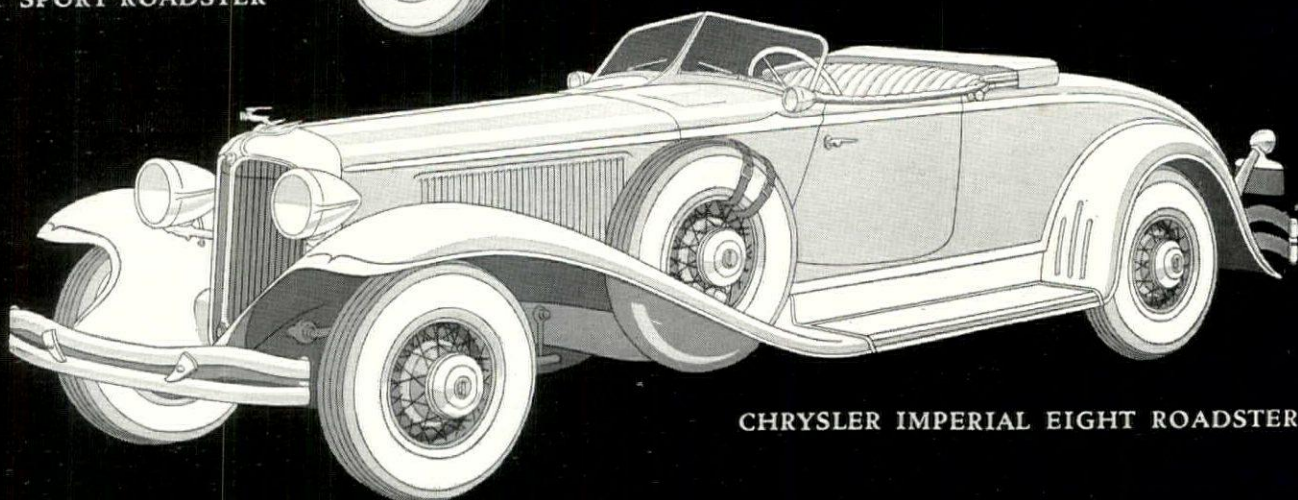
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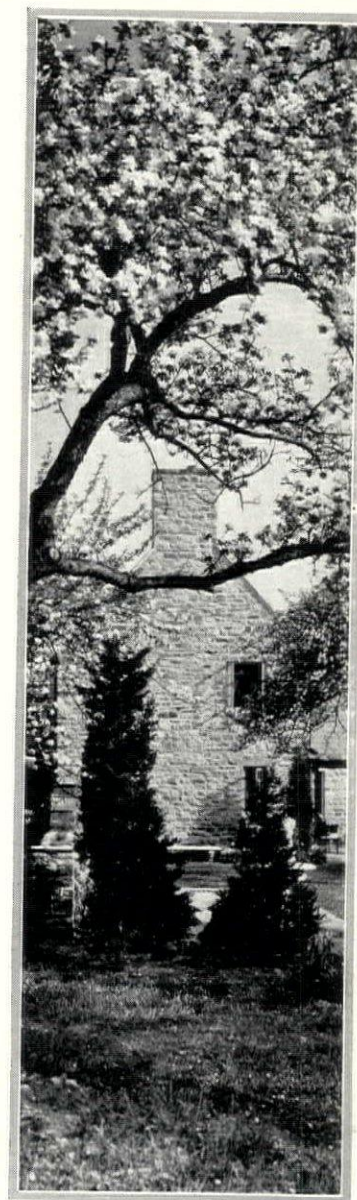
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March 1931

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THERE is that about the spring awakening of plants which stimulates mankind to strange activities. The contagion of reviving growth in the flower border, the drab mat which for months has been the lawn, or the erstwhile bare twigs of bush and tree, inspires each of us according to our lights. Writing spring poems, housecleaning, spading up the garden, going a-courting, buying a new necktie or hat—they're all manifestations of the same basic urge to start something fresh.

We are glad that this is so. It could be accounted a great human loss were we never impelled to be mildly light-headed. Occasional reversion to simple impulses is good for the soul.

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The

BULLETIN BOARD

GARDEN MANNERS. They tell the story of a botanist on one of the scientific expeditions to a desolate corner of the world, how he came across a rare plant, and, instead of rooting up the whole of it, took only a piece and replanted the rest. Would that some of our wild-flower enthusiasts exercised the same discrimination and thought.

This item we would place first if we ever wrote a book on Garden Manners. To it we would add the suggestion that a good gardener, however soiled and clumsy a person he may appear to be, is often worthy of respect. Gardeners perhaps suffer from the fact that, except for an occasional apron, the craft has no distinctive livery. The jockey wears his master's colors, the maids have their uniforms, the chauffeur is clothed according to his rank, but the gardener is happy in baggy pants and an old coat. We must respect him for his intelligence and love for green growing things.

THREE OF A KIND. When an architect designs a type of house that strikes the public fancy, there is no telling where its repetition will stop.

Two years ago we published a house designed by J. Floyd Yewell to our specifications. Shortly thereafter we had the pleasure of passing Mr. Yewell's address along to a reader who liked the design. The house was built. Some time after this a passer-by became enamored of it and he, also, went to Mr. Yewell. Now we learn that history has repeated itself and the architect is doing the residence for the third time.

EASIER TRUNDLING. At last the inventive mind has turned its attention to the humble wheelbarrow. It can now be obtained made of wattles, so light that a child can move it without strain. For lawn work, where you want to avoid making ruts, there is a wheelbarrow that is propelled by a caterpillar belt instead of a wheel. And now the summit of ease is reached by a rubber company offering one with a pneumatic tire on the wheel.

THE NUREMBURG STOVE. Although Americans pick and choose at will in the various fields of furniture and decoration, one item they appear to have overlooked: the German stove. Because we first associate it with a folk fable about Nuremberg, that name has always clung to it in our memory. A massive affair, this, its generous flanks glistening with colorful tiles. It was the palpitating center of Papa Biedermeier's world. Why not, since we are adopting Biedermeier wholesale, take up his stove? Where rooms are large enough—and many of our houses afford adequate area—this stove might prove quite a decorative and interesting feature. Either in plain white tiles or in the colored, it is available in many desirable shapes; even the Modernist versions of it are generally pleasing in line.

TRURO

There is a little house
In a quiet valley
Where I should like to live
When I am old and can
No longer face the sun;
Where fog blows through
From off the restless sea,
And poplars shiver there
Afraid of its caresses;
A house of laughter and of tears,
Where one has loved
And suffered by the loving
But has regained a quietness
Within its peace and beauty.

—MADELEINE ISELIN

THE GREEN THUMB. There are some people—often very humble people—who seem gifted above others in their capacity for making plants thrive. In the past century Max Leichtlin of Baden-Baden bore this reputation: when all the experts failed, the seeds and plants were sent to him, and invariably he made them grow. This gift has its own quaint name: you say of a man who can do this, that he has "the green thumb."

ALABASTER. Among the popular materials now being used for lamp bases, cigarette boxes, ash trays and such, is alabaster. Since the Egyptian and other ancient people found it useful, we can scarcely call it new. What sources of the stone they tapped, it is difficult to say; most of the world's supply now comes from Volterra in Italy, and Pisa and Florence are also centers of the industry.

ART FROM IRAN. London has just been going through the throes of a Persian Exhibition, and what may come of this new-born enthusiasm in the way of taste cannot yet be said. To Americans, Persian art seems a trifle off their orbit to enjoy with keen appreciation, and yet, once the fancy is caught by it, one rarely loses the spell. The collector of Persian miniatures and the collector of Persian manuscripts alike feel this persistent fascination.

There never was any writing in the world so beautiful as Persian. It has a decorative, fluid quality that even the noblest font of type fails to convey. For the Persian raised calligraphy to a superb art. A sheet of old Persian writing framed and hung on the wall has even more decorative qualities than many an etching.

There are many other phases of Persian art worth collecting and studying—fabrics, silverware, and wood carving among them. They offer endless suggestions to the designer of fabrics and wall papers. Perhaps, in time, we shall feel pulsations of this Persian show in the decorative art of America.

CACTUS PROPHECY. The current popularity of Cactus both as a house and apartment plant and in the garden is beginning to attain its zenith. Consequently House & Garden looks back on its prophecy with paternal affection. In October 1923 we stated, "Since we are reviving the mid-Victorian and cease to shudder at wax flowers and kindred manifestations of its vogue, why not extend our interest to those super examples of the Seventies, the potted Cactus?"

Seven years ago this prophecy was made. Now we venture to make another. Not only will hardy Cactus be grown in gardens, but the interest will soon extend to all forms of succulents—Sedums, Sempervivums, Aloes and such—and the succulent garden in more favored climates may, eventually, attain some of the popularity now enjoyed by Alpine gardens.

The appearance of Dr. Houghton's *The Cactus Book* is an indication of the movement. Having read his pages, one vows forthwith to start Cactus. England's Cactus Society was founded as far back as 1895, at which time there were in the British Isles 210 collectors and growers of these plants. But even before that, in the '40's and '50's, Cacti were favorite plants with amateur gardeners.

BUTTERFLIES INDOORS. The Modernist seized on the Cactus because of its strange shape, and in Germany, where the Modernist movement in architecture and decoration appears to thrive the indoor winter garden of Cactus and succulents is a commonplace. It is usually a large glass case filling the sunny end of a room, with the potted plants placed on glass shelves.

Now these worthy Teutons have gone in for raising butterflies in their winter gardens, and the lovely creatures flutter from plant to plant in a highly decorative fashion. It is not difficult to raise them from cocoons. A new book, *Farfalla*, tells all about it. Perhaps this, too, will become a domestic sport in America.

BAILEY AND FARRER. To the desirable gardening books add the titles of *Hortus* by L. H. Bailey, a splendid and handy gardening dictionary; *Rainbow Fragments*, a garden book of Iris, by J. Marion Shull; and *The Plant Introductions of Reginald Farrer*, edited by E. M. Cox. Farrer's writings are constantly in demand, and this memorial volume is a worthy addition to Farreriana. In it are reproductions of some of Farrer's own flower paintings, for he was an artist first, then a novelist, then a plant explorer.

THE GARDENING GUIDE. Toward the end of this issue the reader will find eleven pages of tables into which has been packed about all the gardening information necessary. Mr. Rockwell selects plants suitable for all sections of the country. A. D. Taylor, landscape architect, sets down in his columns the work of ten years' research and correspondence, presenting, with his text, the extremely valuable feature of an all-American planting table. Beyond this, Mr. Andrew Wilson tabulates plant diseases and their prevention or cure—the first of a series of three such charts which are being prepared for House & Garden under his direction.

Each of these tables required vast investigation and constant checking by authorities. As now presented, they represent the most authentic, dependable and easily-used survey of garden information ever offered.

A WORKING GARDEN LIBRARY. The Horticultural Society of New York is taking great pride in the development of its library. Here in mid-town it has assembled a splendid collection of books on all phases of horticulture, and which is constantly in demand from students and researching gardeners.



John Kabel

The Snowy Banners Of The Trillium

A Gardener Is Known By The Flower Company He Tries To Keep

Richardson Wright

Wonderful development has been made recently in the Oriental Poppies. There are the fringed kinds, such as King George, and the old rose types such as Delicata. For a deep dark red, choose Lula A. Neeley. Trilby is a dark, rich red. The illustration shows the familiar Princess Victoria Louise, which is salmon shading to blush rose



J. Horace McFarland Co.

CONSTANTLY in his writings the late Ernest H. Wilson applied the word "aristocrat" to certain trees and shrubs. In doing so, he gave us a new standard by which to judge them. Into this classification he placed many new kinds, just now being made available, and, surveying his various writings, we find that countless of the old familiar kinds he accepted also as of the aristocracy.

Something of this same strict classification is required for perennials. Mere newness of a variety does not necessarily warrant its election to this Social Register of Plantdom. In fact, discerning gardeners apply many points of judgment to both the new and the old—color, form, individual beauty and display value in the garden being among them. Of recent years two other desirable qualities are being stressed—daintiness and fragrance. Let us consider these points.

The fault in many a garden arrangement lies not in the plants themselves but in misplacing them, and their inherent beauty is lost. Many an Iris, beautiful in the hand, lacks the penetrating value of color even when massed in the garden, consequently its garden use is limited to front-of-the-border positions where its delicate

beauty may be appreciated. We do not expect it ever to make a crashing effect.

The word "form" brings up a whole gamut of points—habit of growth, shape of foliage, kind of flowering, height and general health. There is the bushy growth of the Lupine and the fountain-sprays of the Siberian Iris, the low sprawling of Candytuft, the airy grace of Columbines, the spires of Delphiniums, Foxgloves and Verbas-cums. Each of these has its own characteristic leafage, each its own way of flowering, its height, and some are easier to maintain in health than others. These are points always to be kept in mind.

In the flowering especially, those who know garden aristocrats when they see them are more and more demanding daintiness of form and, where possible, fragrance.

This trend of taste can be marked in the new appreciation of single as against double flowers. The single Hollyhock is often vastly preferable to the double. The single Rose is fast winning a deserved support. The light grace of *Delphinium belladonna* can well challenge the tight poles of Delphinium stalks that, in recent years, have been so popular. Compared with the Japanese and single types, how vulgar can some of our great bomb Peonies become! The world

of alpines offers a great diversity of daintiness. Perhaps the growing interest in them has awakened some of this desire for lightness and grace of form.

Fragrance would seem almost a necessary quality—and yet we have come to the pass where often we have to demand it. Loss of fragrance is one of the fates that dog the footsteps of the hybridist. Can we call a Rose perfect if it lacks perfume? Does a longer stem and a larger flower make the Sweet Pea more valuable if, in the process of acquiring these, it has lost its fragrance? True, some flowers never could boast fragrance, and it is folly to expect it of them, but certainly we should require it of those that were fragrant by nature.

The really great aristocracy of the world is characterized by a simplicity of manner and a gracious presence. So are the aristocrats among the perennials.

However, like aristocrats even, some plant families have their ups and downs, some their crowded hour of popularity, some their period of neglect. In this country we may fail to accept a plant family because of the difficulty in obtaining the plants (an orphan that might well be left on the door-step of the Federal Horticultural Board which has so ardently fathered plant quarantines),



(Above) Scabiosa—*S. caucasica*—is available in a good white. Another type shades through from light to deep blue, another in violet blue and variously-named strains have combinations of these tints. Scabiosa is one of the best cutting flowers in the border

(Top, left) There is about the Japanese and single Peonies the delicate, feathery beauty of a bird's wing, and the great gold heart of many of them is worn like a jewel. Mrs. Edward Harding, whose selection is printed elsewhere, considers that Ama-na-sode is still the best pink Jap and Isami-jishi still the unsurpassed white. The illustration shows Mikado, which is crimson with a heart of gold

(Left) Because of the red in them, we may need an acquired taste to enjoy Gaillardias. They have been subjected to successful hybridizing of late. Portola hybrids produce bronzy-red flowers with gold tipped petals. There are also a tangerine, self-colored kind and one almost as pale as sulphur. Copper crimson centers and orange margins characterize others



J. E. Tyler

or it may be due to limited knowledge about those plants or difficulty in growing them due to our limited knowledge. Consider some of these great groups.

There are vast quantities of Primulas about which we have to learn a great deal before they can be grown here successfully; nevertheless persistent amateurs and commercial growers are advancing in their experiments. The Hellebore tribe, with its many hybrids, deserves support and wider distribution. We are fast learning the delicate beauty of *Alyssum saxatile citrinum*—a softer tone than the old yellow *Compactum*. The Fall Anemones or Japanese Wind-flowers, once grown, will thereafter be part of the garden family, although some gardeners find them reluctant growers. The Astilbes are now offered in a range of delicate tints well worth considering. Nor should we overlook the silvery effects of the ancient *Artemisia lactiflora*.

When one comes to the Bellflowers the choice is difficult to make, but one can rarely go wrong on some of the Telham hybrids. Of late I have been deeply impressed by that tall Snakeroot, *Cimicifuga racemosa* Simplex. The shrubby Clematis—*David-*

Because they are common to our New England roadsides and meadows we have neglected the garden value of Michaelmas-daisies. England, however, has hybridized them and often gives over whole borders to their fine autumn beauty. They require plenty of room and an abundance of food and should be very carefully staked

iana especially—offers a sturdy type of growth and its tiny Hyacinth-like flowers have a penetrating scent. Even our best amateurs have still to plunge into that deep pool of experiment and beauty offered by the Eremurus family. By this time Gypsophila Bristol Fairy has gained the beginning of the popular distribution it deserves—much more lies ahead. We can also show discernment by growing some of the newer Hemerocallis hybrids.

Amateurs might well start a revival of interest in the hardy grasses. These great green fountains have too long lain under the interdict of association with institutional planting: thoughts of Pampas Grass bring with them thoughts of prisons, hospitals and homes for the aged, yet these grasses have both delicate and noble beauty

and many of them can be well used for the enrichment of herbaceous borders.

To select the best Tall-Bearded Iris to-day is a bewildering course. Stiffer and stiffer become the judging standards of the American Iris Society, and meantime the market is awash with new offerings. Certainly the price of the new kinds is no indication of their merit. We can follow the rating given by the Society, tempered, of course, by our own observations of the Iris grown at nurseries and other gardens. My present Iris interest is veering toward the smaller and earlier types—*Cristata* and the Pumila hybrids, with a longing eye cast at some of the Regio and Oncocyclus hybrids, accompanied by an unwavering devotion to the Siberians. Japanese Iris I am raising this year in large pots, which is a custom of the Japanese exhibitors.

While almost anyone can succeed with the ordinary blue, white or pink herbaceous Lupines, the seed catalogs here and abroad are now offering an annoying array of tawny colors and interesting combinations that seem to resent our usual ways. Some of our experts say that these Lupines should be starved and some suggest treating them as



biennials and stuffing them with stimulants like a Strassburg goose being fattened.

Among tall Phloxes there are a few new kinds worth trying, although one feels that, somehow, the advancement is not deeply marked. Perhaps what we need are not newer Phloxes but Phloxes better grown—free of red spider and mildew.

Three more kinds, and then this cataloging must stop. *Thalictrum*, *Trollius* and the Torch Lilies or *Tritomas*. Few flowers offer such a light touch of leafage and bloom to the border as can the *Meadowrues*—and they are easily grown in the normal border soil. *Globe Flowers* or *Trollius* can make the front of the border unforgettable, if well grown. Besides, they are as lovely and lasting in the vase. Of the Tribe of *Tritoma* there is sealed almost the Biblical ten thousand, yet how few of them we grow here in American gardens! They are as easy to grow from seed as Onions. In hardy climates they require deep winter protection or removal to a frost-proof cellar—no more trouble than *Dahlias*—and their range of colors in the sulphurs, yellows, oranges and reds, their variations of height and their seasons of blooming certainly well repay this little trouble.

But why, the beginning gardener may protest, all this palaver about aristocracy? Aren't all flowers beautiful? Undoubtedly—more or less. So are all homes homes and cars cars. The person really interested in gardening, however, wants his or her place to be more than the average. Just as you can judge a woman by the linen on her table and a man by the motor he drives, so you can judge a gardener by the flowers he grows. You need not even see the flowers in bloom—you need only walk around the place and read the plant labels—and you will soon know if that gardener is among the aristocracy. If he is satisfied with the common old roadside *Hemerocallis* you set him down as that kind of gardener, but if his label reads "*Hemerocallis* Sir Michael Fester" or "*H. Ophir*," you know he "belongs." A gardener is known by the flower company he tries to keep.

In order to obtain a wide selection of these desirable perennials I have asked a number of specialists to make a choice of their favorites, irrespective of price or popular acclaim. They are as follows:

ASTILBES

Selected by J. J. Grullemans of The Wayside Gardens Company

Deutschland—pure white.

Moue—because of its unusual shading of crimson with a decided salmon cast. These first two are dwarfs.

Grano—salmon pink.

Prof. V. D. Weiler.

Salland.

All Astilbes will thrive if given a loose, loamy sweet soil and plenty of moisture.

CHRYSANTHEMUMS

Selected by Charles H. Totty

BRONZE—*A. Barham*, *Firelight*, *Bronze Buckingham*, *Ida Skiff*, *Adelaide*. Of these *Bronze Buckingham* and *Ida Skiff* are singles, *Adelaide* is one of the improved Pompons and *Barham* and *Firelight* light and dark bronze in the early flowering types and the flowers are large.

PINK—*Jeanne S. Adams*, *Lillian Doty*, *Mrs. H. Ballagh*, *Mrs. J. W. Martin* and *Mrs. Buckingham*. The last, an Anemone type, is orchid pink and cast iron in hardiness. *Mrs. J. W. Martin* is a novel shade of crushed strawberry.

YELLOW—*Vera Victoria*, *Godfrey's Triumph*, *Yellow Doty*, *Alice Howell*, *Gretchen Piper*.

DAYLILIES

Selected by Franklin B. Mead

Radiant, *Flava*, *Middendorffi*, *Hyperion*, *Royal*. All of these have fragrance.

Interesting work in hybridizing Daylilies is being done in America by Mr. Mead, Dr. Stout of the Bronx Botanical Garden and C. Betscher.

ORIENTAL POPPIES

Selected by Roy V. Ashley

E. A. Bowles, an early apricot shading to shell pink and prettily crimped.

Mrs. John Hawkins, described as the best pink.

Lula A. Neeley—deep, dark red.

Trilby—rich red, plaited petals.

Wurtembergia. These last three are deep rich reds.

Prince of Wales—salmon pink.

Silver King—a white Poppy of dainty habit.

Beauty of Livermere—deep, ox-blood, velvety red.

Mandarin—large Chinese red blooms.

Orange Beauty—orange shaded scarlet with purple blotches.

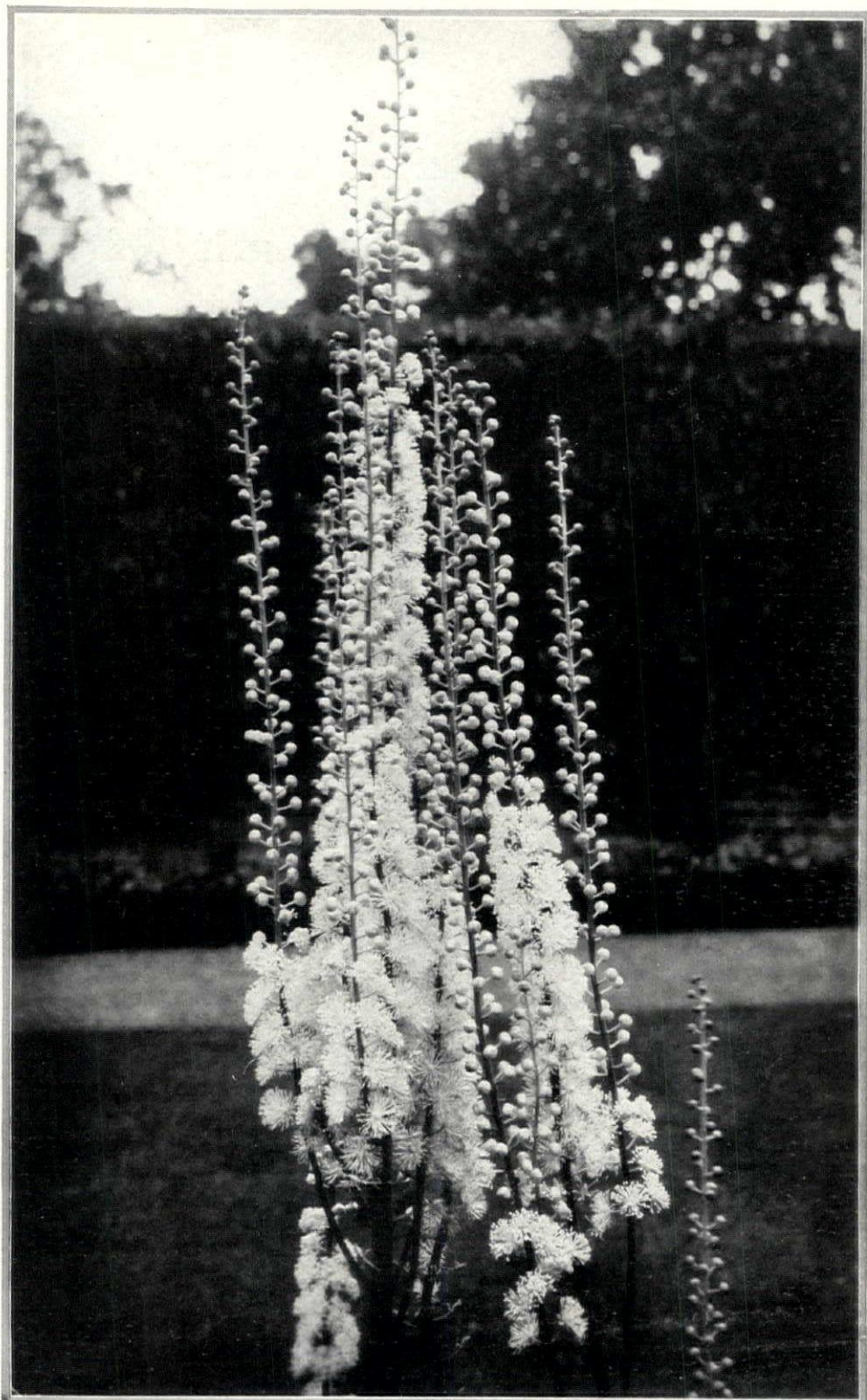
Pygmaea—a dainty, curious and interesting dwarf orange form.

Henri Cayeux—orchid fading to dull lavender, an ashes of roses effect.

Delicata—old rose pink of silky texture.

Negrillon—vivid carmine.

(Continued on page 140)



J. E. Tyler

(Opposite, top) The tawny colors of the new hybrid Lupines justify any trouble we may take in bringing them through the seedling stage. As border companions for Iris they are superb

(Opposite) We generally associate Verbascums with dry meadows and since they are wildlings with us, promptly neglect them. The English, however, hybridized them into flowers of genuine beauty. Miss Willmott, pictured here, is white and grows to six feet. *Phoenixium* rises to only two feet but its colors include white, pink, blue, mauve and purple. *Olympicum*, another six-footer, has silvery leaves and yellow flowers

(Above) Though usually relegated to the wild garden, the tall Snakeroot, *Cimicifuga racemosa*, makes an excellent addition to the back of the border. The variety *Simplex* can be recommended

Gardening Golf—Or Dramatizing The Pursuit Of Flowers

THE year 1930 will no doubt enter the records as the "Year of the Great Epidemic"—of miniature golf courses. We find them, under one name or another, on every vacant lot and corner, and they are even overflowing onto private grounds; many a lawn has become a tiny golf course. Since the American public seems so constituted that it must make a contest of its recreation, we beg leave to suggest a partial conversion of the area devoted to gardens, and nominate for that location, the game of garden golf.

Gardening means many things to many people; its cultural, decorative and useful appeals are fairly obvious to everyone, but its use as a game, fundamentally similar to golf, may have lacked in emphasis. The appeal of golf has many ramifications. It is difficult to excel in golf. So it is in gardening. Each time one tees off on the first hole, it is with the inward hope that that round is to be the best thus far. Each spring, the gardener hopes for the same result. As we proceed around the course, we are alternately thrilled and disappointed; our patience is tried; we are aggravated to the point that it is a temptation to throw the clubs into the water hole.

ONLY a gardener knows how true all this is of his attempts to bring certain plants to fruition. Golf takes unremitting attention and practice, and no inconsiderable physical effort, as also does gardening; while the pleasant satisfaction of the locker room after the shower is matched by a stroll through your garden in twilight. In golf, your opponent is supposed to be par, and par, for a given course, remains the same from day to day or year to year. In garden golf you are battling erratic Nature, uncertain weather, pestiferous insects and villainous fungi.

The rules of garden golf are not unlike golf rules. You may have the necessary instruction from your professional, or friends, you may even have the services of a caddy, in the person of a by-the-day man, but you must make your own shots, which in this case consist of successfully growing to normal development, perfectly healthy examples of the plants herewith chosen.

This course is laid out for the vicinity of Chicago. Since climate is an important factor, certain of these holes should be redesigned for locations with widely differing climate, but for one in the Central West, New York or New England to negotiate par on this course will not be easy. And since it is customary to design golf courses to try the mettle of the experienced golfer, so have we designed this course. The beginner must expect to play in the rough until, with perseverance, success is obtained.

HOLE Number One. A good golf architect ought to design his first hole at least, so that a respectable shot may be had off the tee. With this in mind we have chosen for the first hole, the Rose. Par on this hole is a bed of choice Hybrid Tea Roses, some with Pernetiana blood, healthy and blooming in the late summer the third year after planting. A dub may succeed with these by treating them as annuals, but watch out for that bunker "black spot", and beware of winter killing.

Hole Number Two. The Primrose path sounds easy, but usually it looks easy and is really hard. If you must have an easy hole for the Primula, try *Primula sikkimensis*, or *P. florindae*. But for par

on this hole you must essay *P. secundiflora*. *P. allionii* will yield a birdie, and *P. glutinosa*—well, an eagle is too much to expect.

Hole Number Three. Not too hard, but must be well played, and, incidentally, needs some expensive equipment. A well grown clump of Eremuri, in this vicinity, is as rare as it is impressive. With *himalaicus* or *robustus* you may start, but the hybrids are needed for a par, and *E. bungei*, *E. Shelford* and, for a birdie, *E. wareii*, go on our schedule.

Hole Number Four. The Lily seems to symbolize peace, but there is little peace of mind in playing this hole well. Remember our basis: we must have the plant established and healthy. With *L. regale*, *L. speciosum* and others the game is rather simple. Our par is at least *L. roczli*, or *L. farreri*. For a birdie, take a whirl at *L. parryi*, and for a glorious eagle, establish a clump of *L. giganteum*.

Hole Number Five. Each course has at least one short, fairly easy, but sometimes tricky hole. Ours is the Azalea. Players around Chicago will find this hole harder than those elsewhere, but careful playing will give par, which is a mixed planting of hybrid Rhododendrons and *Azalea indica*.

OUR remaining holes take us definitely into the rock garden. An 18-hole course of endless variation could be laid out among the rocks, but having limited ourselves to nine holes, we have selected the following:

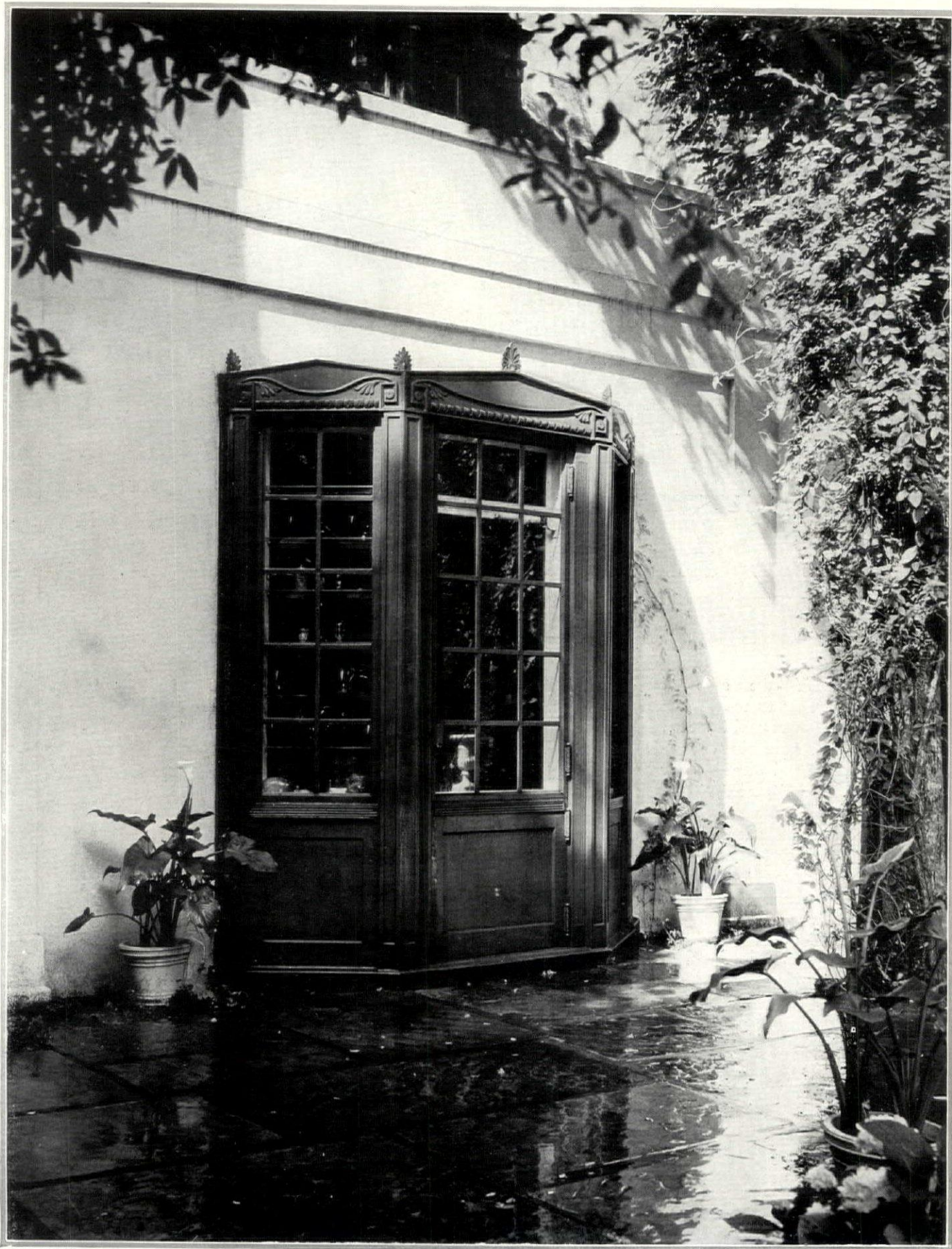
Hole Number Six—Saxifraga. The thousands of members of this genus give fruitful opportunity for choice. One may choose the "mossy" path, which is fairly easy, though a fine spread of *S. moschata rhei* is not to be belittled. The "silver" path is slightly harder than the "mossy", as you might expect, but for par on this hole, the *kabschias*, and nothing less than a few square feet of *S. burseriana magna*, will do. If success with this makes your head slightly enlarged, try *S. diapensoides*—and with success, buy a new hat.

Hole Number Seven. There is a soft melodious sound to the very word *Gentiana* that may promise a false security—beware! *Gentiana farreri* will try your temper a-plenty, though rewarding success with a fierce blue beauty such as can be found nowhere else. *G. bavarica*, though, for a par score on this hole.

HOLE Number Eight. Androsace offers only slightly less variety of choice than the Saxifrages, and makes up for that with a more variable temper. Any member of the *chamaejasme* or *charpenterii* section of this genus will give a good game, but when ready for a real show of mettle, pick *aretia*, and prepare for the worst.

Hole Number Nine. Any garden's list of Nine Peace-Per-turbing-Plants would be incomplete without the inclusion of the King of The Alps, *Eritrichium nanum*, the alpine Forget-me-not. And a bout with him you will not forget. There may be places in this country where the King may be flowered in the open ground; I am still uncertain whether Chicago is one of them, and if that is a confession of my own golf score, make the most of it. But like every true golfer, let each failure be but a goad to further effort, for in each one of us lingers the conviction that it may be possible, someday, somehow, to make a hole in one.

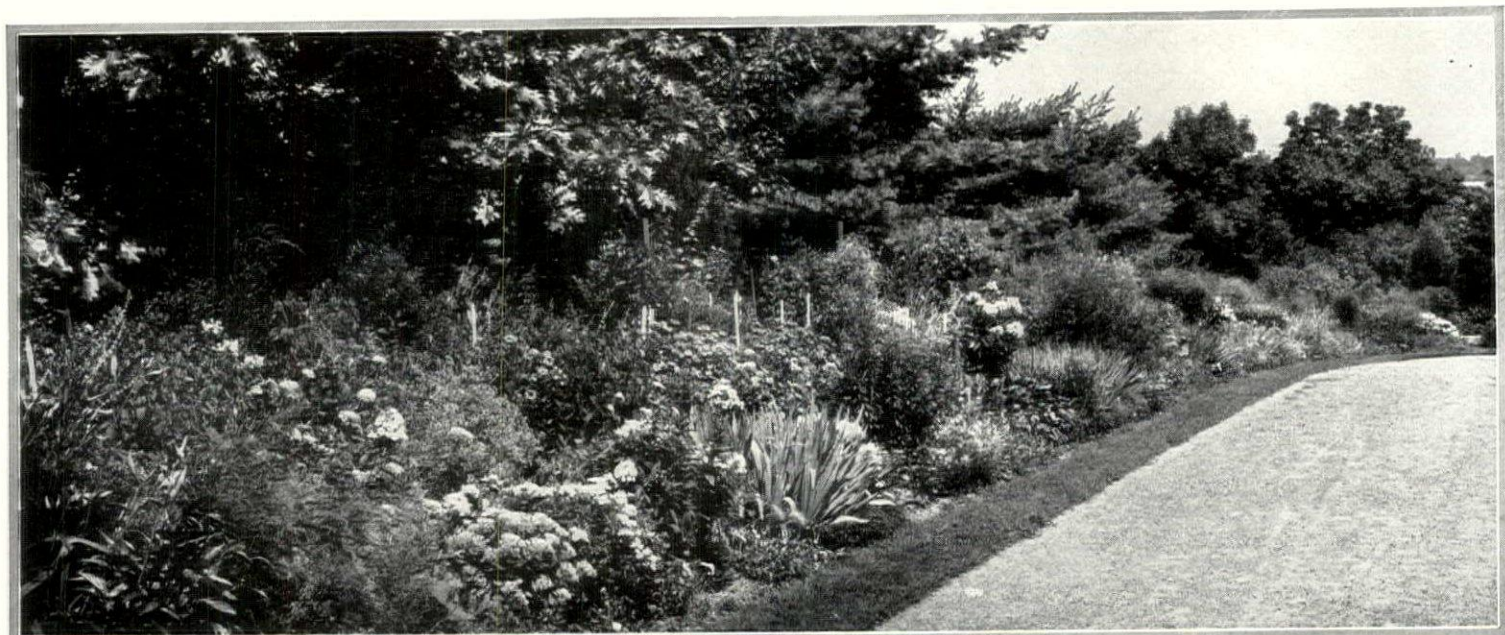
—WALTER A. SHERIFFS



R. M. Luster

A Georgian Bay In High Relief

Against a broad expanse of pale colored wall, the sharp definition of this dark-toned bay creates a study in contrast. It is one of two bay windows of identical design upon a Georgian house at River Oaks, Houston, Texas. John F. Staub, architect; B. P. Briscoe, associate. Other views on pages 63, 64 and 65



Harry G. Healy

Revamping The Hardy Border Brings Its Own Reward

Louise Beebe Wilder

PERIODICALLY the strip of ground varying from four to twelve feet in width and from ten to several hundred in length, planted with a mixture of perennials, annuals, bulbs, and often shrubs, that has come to be known as a hardy border, requires to be thoroughly turned out and renovated. This operation for the best results should take place every third year. If we let it go much longer we have a sad state of things to face—a forest of weakly stems and matted clumps, the best things overcome and vanquished, the coarse things in possession, the balance of power, so to speak, completely unsettled. Most of the plants will by this time be crying out for division, replacements will need to be made, unsatisfactory effects remedied, the ground re-enriched. It is not an easy thing to do, this making over of an old settled border, but it simply has to be faced once in so often if appearances are to be kept up at all.

Although it may be done with success in the autumn, all things considered, the best time to choose in this climate is early spring—as early as the ground may be easily worked. In the spring the plants are full of vigor and eager to begin growth anew; every smallest division at this season takes hold and goes to work with a will to accomplish a worthy showing; certainly the spring is the best time to move all summer- and autumn-blooming perennials. Where there are colonies of bulbs among the perennials the situation is somewhat compli-

To be at its best, the perennial border should be thoroughly renovated every three years. Plants as well as soil become exhausted and must be replenished or replaced. The photograph above was taken in the garden of E. E. Smathers, Port Chester, N.Y.

cated; the best plan is to leave them in place until the foliage is ripened, carrying on the work while disturbing them as little as possible and replanting them later in the season if their rearrangement is called for. Madonna Lilies are best moved in August and should be replanted preferably in a fresh locality. If there are shrubs in the border they will probably require only to be thinned out and to have the soil about them dug and enriched.

Where the border is very extensive and labor none too plentiful, it is advisable to attempt only half of it, or even less, at a time. A section may be chosen for renovation each season, but that section should be done thoroughly. The work should be carried on as quickly and expeditiously as possible so that the plants will not be out of the ground longer than is absolutely necessary. The most thorough way is to take all the plants out of the portion of the border that is to be overhauled, label them and cover them with canvas or burlap to keep the wind and sun from drying out the roots. Then attack the empty expanse with a spade, turning out the soil section by section to a depth of at least eighteen inches

—twenty-four would be better—and adding a heavy dressing of cow or horse manure. If the soil is light and warm cow manure is the best to use and it should be worked down deeply where it will help to maintain cool rooting conditions for the plants; if inclined to be heavy, rather strawy stable manure will give it a better texture and a little sharp sand may be added. Any manure used at this season must be well rotted. In the autumn fresher stuff may be employed with safety. Many good gardeners employ a peat moss and bone meal mixture in place of manure.

A majority of plants are decidedly the better for division every three years. Of these are such border favorites as Phlox, Pyrethrums, Michaelmas-Daisies, Helianthus, tall Achilleas, hardy Salvias, Helianthus, Delphiniums, *Campanula lactiflora*, Heucheras, Shasta Daisies, Japanese Irises and so on. Peonies, Japanese Anemones, Fraxinella, Platycodon, Funkias, Christmas Roses, Hemerocallis, Gypsophila and Trollius, on the other hand, if they are thriving, may be left to themselves for a longer time. Chrysanthemums are best divided every year. Columbines divide poorly and it is best to raise them frequently from seed, thus maintaining a youthful stock to draw from. They are not long lived. Nor is it worth while to divide Hollyhocks save to preserve some exceptionally fine variety. They are easily raised from

(Continue! on page 124)



Tebbs & Knell, Inc.

The calm serenity and almost severe simplicity of the Georgian mode make this house a perfect foil for the heavily wooded estate which is its setting. This classic portico and terrace face upon the gardens and toward the bayou. A residence at River Oaks, Houston, Texas. John F. Staub, architect; B. P. Briscoe, associate

"Bayou Bend" — A Georgian Residence In Texas

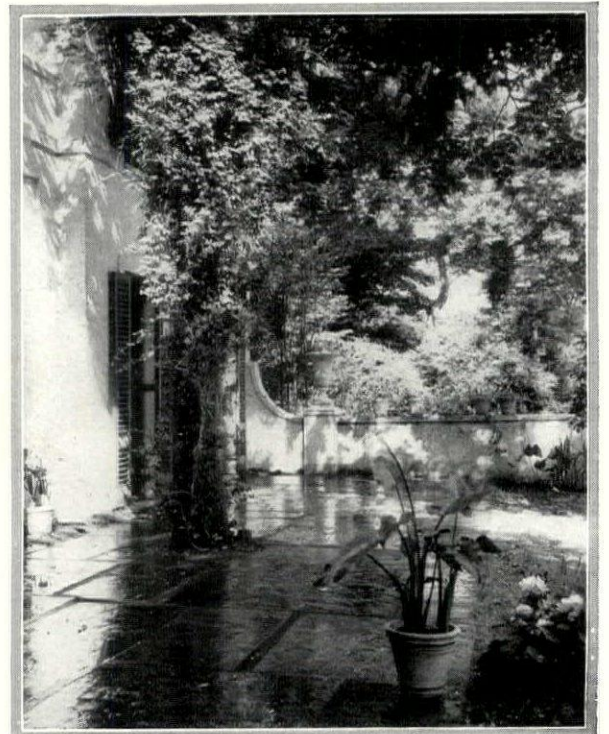
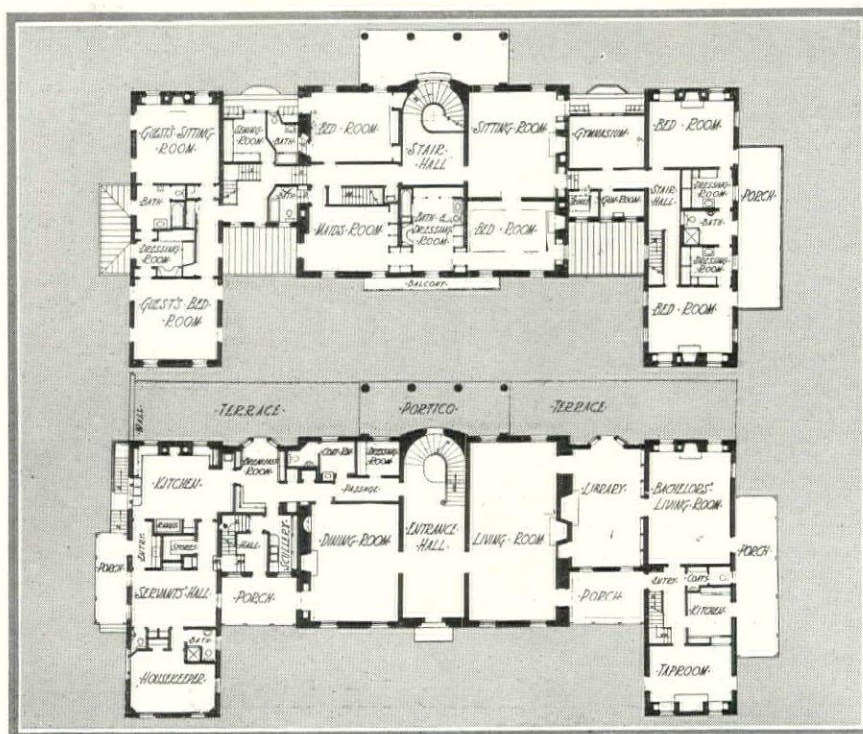


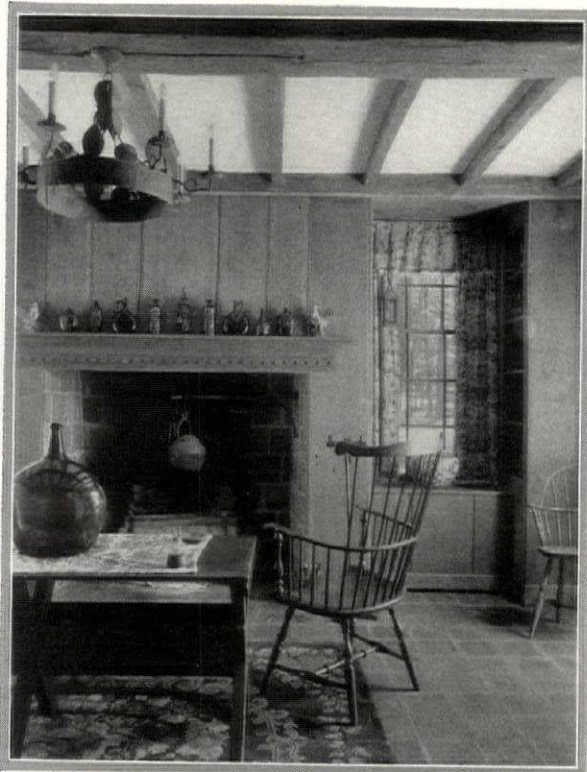
R. M. Luster

Designed After The Nineteenth Century Houses Of Louisiana

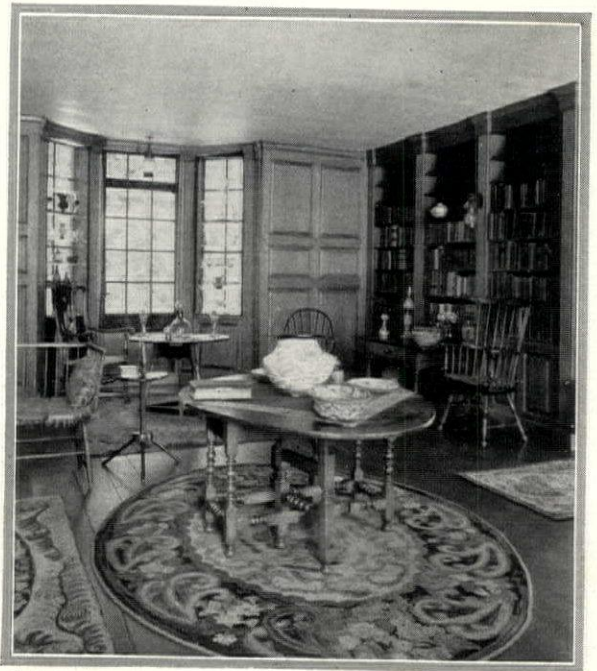
At Bayou Bend, front and rear elevations vie in interest. The garden face, shown on the preceding page, is no less distinguished than the entrance façade presented at the left. In color, ironwork and Greek ornament, the house follows after the fashion of 19th Century Louisiana. Walls are pale peach stucco accented by copper-brown blinds and sash

The central entrance hall leads directly through the house to the rear terrace. Into its curved end is fitted a winding stair to the second floor. At the right is the living room and to the left the dining room. The left hand wing is devoted to service. The balancing portion at the right is the bachelor's wing. John F. Staub, architect; B. P. Briscoe, associate





Paneled walls and bookshelves in the library are of pine. Furniture is Early American. Side windows of the bay have glass shelves built across to hold a collection of Early American glass. The center window opens out to give access to the terrace



Tebbs & Knell, Inc.

To the left is the tap room, designed to hold the owner's collection of Americana. Ceiling beams, lighting fixtures and furnishings are antique. This room is at the end of the bachelor's wing, just beyond a small kitchen and a stair to the second floor

Dining room woodwork is painted dark ivory glazed with opaque white to give the effect of rice glaze employed by Oriental artists. Above the chair rail, walls have a painted design of flowers in Oriental character upon a gold background



A Review Of Water Supply Systems For The Country Home

Elizabeth Hallam Bohn

BATHS upstairs, downstairs; running water for the garage and the garden; the swimming pool; the wall fountain—few realize how many gallons of water flow under the mill of the gods of comfort.

Favored are they who can tap a living spring high on a hill and run water into the house by gravity. But the great majority of homes must look to the depths of the earth for water via the deep or shallow well. So to meet the need for a dependable home supply, on which so much of the joy of country living depends, modern engineering has developed for our use highly efficient pumping and storage systems to raise the water and hold it against our needs.

DEEP-DRILLED WELL

The so-called "Artesian" well taps the water flowing far below the earth's surface, the powerful bit of the well driller boring down seventy-five, a hundred, three hundred, even eight hundred feet before the supply is found. Fame will indeed crown the seer who will some day develop an unerring instinct for finding the spot which will yield water at a reasonable depth—under one hundred feet. For drilling a well costs somewhere between four and a half and eight dollars for every foot the drill goes down. At the present time, the only safeguard against too high expense is to select a driller of known reputation for fair dealing, who will not go deeper than is necessary to secure an adequate flow. Architects who have built homes in the neighborhood often know who can best do the work. The performance and past record of one who is more casually selected can always be checked up by getting in touch with his references.

Usually the man who sinks the well does not install the system which is to raise the water. He secures the flow and insures it against the admixture of surface water by sinking a casing down to bed-rock and making this protecting pipe water-tight with concrete. He tests for the water yield per minute, giving, in his report, the depth of the testing pump in the well shaft. This work done, he moves out of the picture.

More detailed information about any of the water supply systems mentioned in this article, and the names and addresses of their manufacturers will be promptly furnished upon request to House & Garden's Reader Service, 420 Lexington Ave., New York City.

Until the water is actually secured and measured, it is not possible to select the water system to be used in the Artesian well. There are two general types—the deep well pump and the shallow well pump. When released by the drill, the water in the well immediately seeks and holds the level of its origin, perhaps thousands of miles away. It may bubble up right to the surface so that the shallow well pump with its simpler machinery can be employed. Or it may lurk deep down at some point below the 22 foot level, which is the satisfaction limit for this type of equipment. In the latter case, the more costly deep well pump will have to be installed, with its cylinder down deep in the water and its pump directly over the well shaft. The deeper the cylinder must be set, the more power will be needed to operate it.

SURFACE WELL

The "surface well" employs an entirely different principle from the Artesian or deep-drilled well. For the former draws on the water contained in the soil above the rock foundation of the earth. In sandy land near the sea, or where expense is a factor that must be given great consideration, the shallow driven well can give real satisfaction, provided the water is frequently tested by a skilled bacteriologist for the dangerous colon bacillus, which only too often renders surface water unfit for drinking.

In making a shallow well, the "water sand" is tapped by sinking a casing. A smaller pipe is lowered into this. At the lower end of the inner pipe is a ten foot strainer, coarse for a gravelly soil, fine for a sandy one. Now the larger outside pipe is drawn up until the full length of the strainer can

function. The shallow well pump will be used here, as it is when the brook is put to work or a spring becomes the water source. This type of pumping system will operate with satisfaction wherever the water is within approximately 22 feet, straight down, of the surface. Unlike the deep well pump, which must be set directly over the well, the shallow well equipment can be set in the cellar of the house, or wherever desired, although the storage tank should be set as near the pump as possible to eliminate friction losses in power.

SELECTION FEATURES

Many companies manufacture both the deep and shallow types of pumping equipment, employing electricity or gasoline as power medium. By selecting a well established company of unquestioned integrity the equipment is not likely to be orphaned while there may still be need of replacements. For even a deep well pump, with the wear it receives, should give at least fifteen years of service, with proper care.

The experts of the company selected will advise on the size and type of equipment best suited to individual requirements. They can also be consulted after the pump is installed, should any additional points need explanation. These specialists strongly suggest that the pump be of sufficient capacity to handle future demands upon it. Where the demand for water is intermittent and for short periods, it is more economical to put in a relatively small pump with tank large enough to supply these short period demands. The peak requirements are estimated and tank and pump are selected whose combined capacity will meet these demands. If there are no peak demands on the system, it is customary to estimate the total daily requirements and then select a pump with a capacity in gallons per hour equal to one-half and a tank with a total capacity of one-half the estimated daily requirements. For the gasoline driven outfit, the same size pump should be used but the tank should have a total capacity equal to two times the total daily requirements.

(Continued on page 116)



Drix Duryea

A hallway that is merely intended to be passed through should not be encumbered with unnecessary furniture. A console, table or commode of distinguished lines, with a mirror above, and a chair or ornamental bench are sufficient for this space. Decorative interest can be supplied by unusual handling of walls and floor. Such was the method followed in the entrance hall pictured on this page, where the only furniture is an 18th Century mahogany commode and Sheraton bench covered in orange velvet. Pale gray walls, with doors in two tones of gray picked out in white, make a serene background for these pieces and two beige pedestals holding old blue and white Wedgwood urns. Here the ornamental floor is terra cotta terrazzo with an inlaid star and border of beige marble. A. M. Dick is the owner. Fuller & Dick were the architects



Five Inviting Entrances
From Houses In The East
South And Middle West



Tebbs & Knell, Inc.

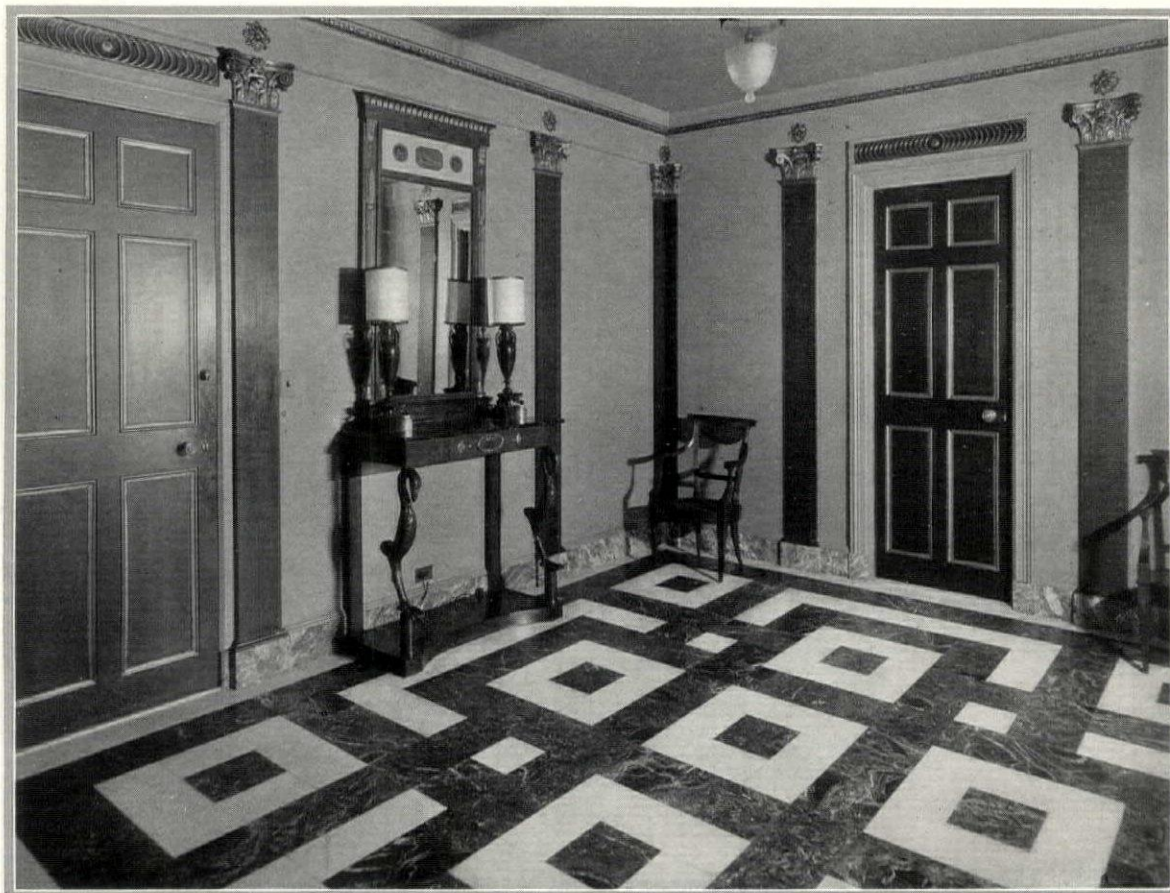
(Above) A hallway in the William Ogden Coleman house, Indian Hill, Ill. owes its inviting effect to several elements—semi-free-standing stairs, gray architectural paper, flooring of wide oak planks and a gay hooked stair carpet. Russell Walcott, architect. Earl Hart Miller, decorator (Left) Yellow and henna paper brings color and design to the hall of the N. V. Stockton residence, Winston-Salem, N. C. Sofa is black and gold, rugs, copper. Charles Barton Keen, architect; W. E. Browne Co., decorators

(Opposite page, top) This hallway in Mrs. Vincent Astor's New York house has walls painted by Allyn Cox to simulate architecture and sculpture. Architectural details are gray, statues green, walls pale yellow. Mott B. Schmidt, architect. Walls in the dramatic entrance opposite are grayish mauve; doors and pilasters lacquer red picked out in gold. White and purple marble floor. The New York home of Walter E. Sachs. William McK. Bowman, architect. Gertrude Newell, decorators

**Showing The Value Of
Decorative Walls
In The Entrance Hall**



G. W. Harting



Amemiya

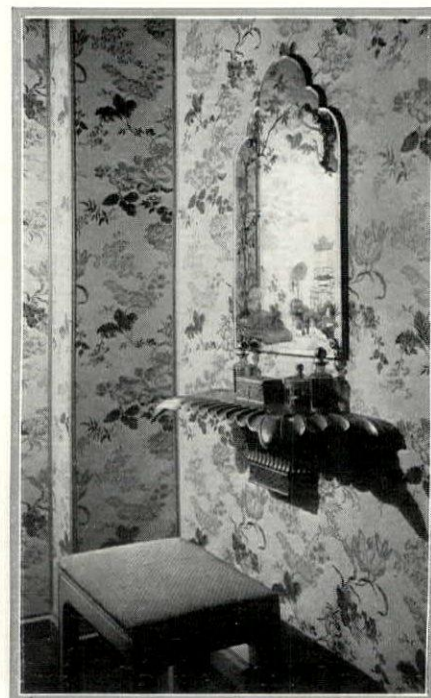


Samuel H. Gottscho

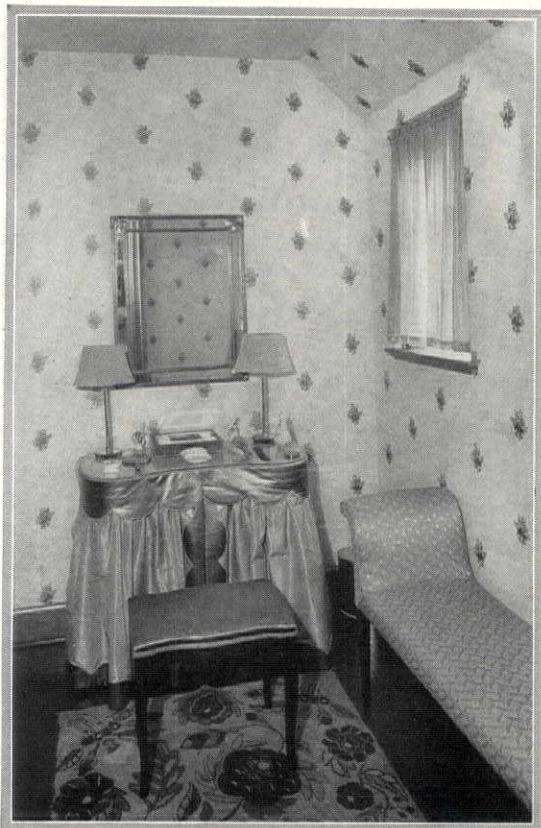
The small powder room is a delightful space to decorate as all manner of frivolous effects are permissible. Since the furniture is usually limited to a dressing table and chairs, the background must supply decorative interest. Gray dotted paper, with drapery frieze in plum, blue and pink, forms the background in the dressing room at the left. The table is hung in pink silk with a plaid design of fine red lines, trimmed with blue taffeta ruffles. The chair seats are plum and white chintz. The home of Mrs. Carroll B. Alker, Brookville, L. I. Thedlow, decorators

When the space is too small for a dressing table of average size, a wall bracket of the type shown in the tiny dressing room below is an excellent solution. This carved and gilded shelf, designed in the Chinese taste, is just large enough to hold toilet accessories. In keeping is the mirror above, ornamented with Chinese painted decoration. The walls of this room are covered in glazed chintz with a green ground and floral design picked out in rose, green and dull gold. In the New York residence of Augustine L. Humes. Decorated by the Arden Studios

Powder Rooms That Suggest Ideas For Dressing Table And Wall Treatments



Richard Averill Smith



Drix Duryea



J. W. Harting

(Upper left) Paper with gray-blue ground and small clusters of gold fruit makes charming walls for a small dressing room in the home of Mrs. Pomeroy Francis, Morristown, N. J. The taffeta-hung dressing table is a deeper blue than the walls. It is trimmed with an applied scallop of gold colored taffeta. The long Directoire bench at the side is covered in peach and yellow silk. Mrs. Kenneth Torrance, decorator

Contrasting trimming is again used on the dressing table in the room above, in the New York apartment of Mrs. Henry Walker Bagley. Soft, medium blue taffeta is ornamented with flame taffeta appliquéd to form a flower pattern. The wall paper of a modern design has a biscuit ground and pattern of flame and dull gold, and the wood trim matches the background of the paper. Dark blue rug, Gertrude Smith, decorator

(Left) To tone in with the chalky blue background of the wall paper, a deeper blue taffeta was selected for the dressing table drapery. The ruffle and lower edge are trimmed with inch wide bands in henna, blue-green and yellow—the colors of the strawberry pattern of the paper. Lamp shades of yellow book linen are smocked at the top



Tebbs & Knell, Inc.

18th Century American furniture has the advantage of distinguished backgrounds in Mrs. Charles Minshall's New York apartment. In the living room the fireplace wall is paneled; arch-headed cupboards flank a carved mantel. Woodwork is cream-white. (Right) Green and white Chinoiserie paper and maize curtains make a fine background. (Below) Sepia and gray block paper and paneled dado. Katharine Hartshorne, decorator

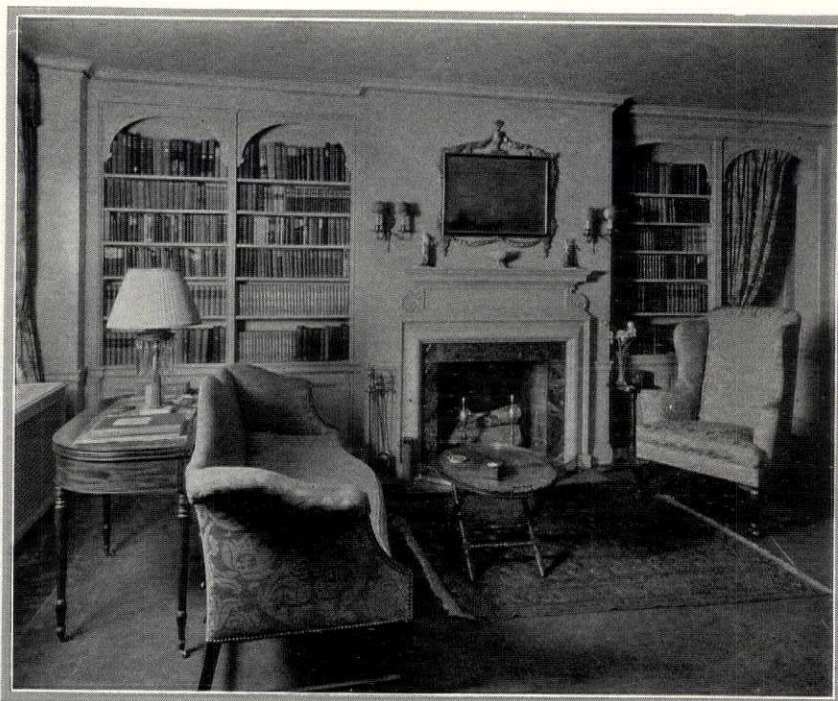


**Flattering Settings For
Early American Antiques**

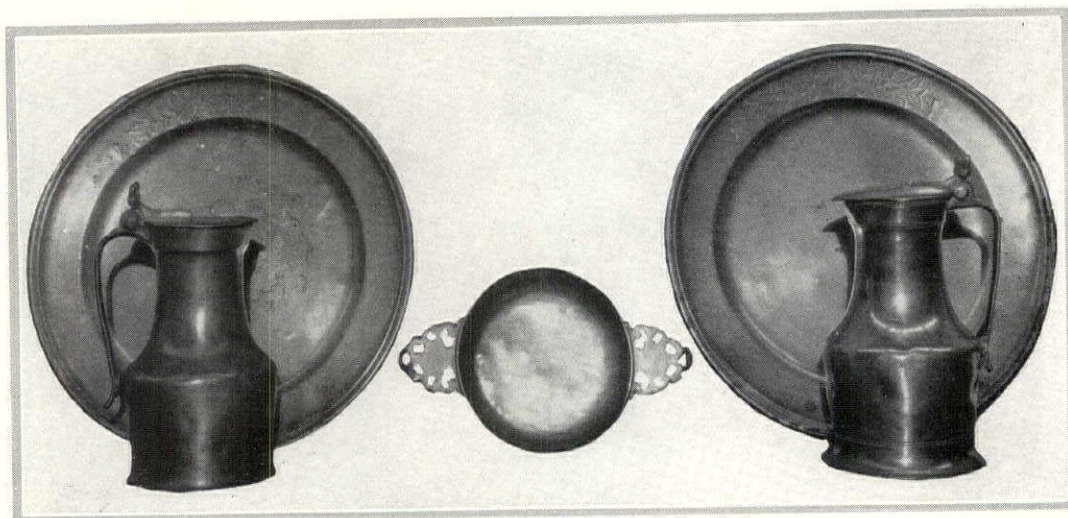


Richard Averill Smith

Furniture Of The Federal Era In A Decorator's Home



Decorative scenic paper and a subtle color scheme complement the antique American mahogany in the dining room above. Dado and ceiling are blue, with hangings of mauve taffeta bound in blue over horizon blue gauze; the rug is eggplant. Living room walls are pinkish mauve glazed with blue. Curtains here are blue-green chintz with design carried out in purplish reds; blue-green damask covers the overstuffed furniture and the rug is eggplant. The same coloring prevails in the hall which is furnished with American antiques. It is the apartment of Ethel A. Reeve



What The Collector Should Know About English And American Pewter

Mr. and Mrs. G. Glen Gould

ENGLISH and American pewter have a very natural affinity and show the same sequence of styles, America a little tardier than England, just as its general use here continued for perhaps ten years after china had supplanted it on English tables. But there are certain distinctions which lovers of Americana are coming to know, as the collectors already do know, and these are matters of interest to all who watch keenly for the beginnings of that independent activity which has made America what it is to-day.

There was here no "Worshipful Company of Pewterers" with a tradition reaching back for centuries, to tell a man what he could or could not do, to regulate the quality of metal he used or to compel him to mark his wares. Yet so faithful to the best traditions of their forefathers were our American pewterers that they voluntarily maintained very high standards of metal quality and craftsmanship.

Aiken's Metal: English; contains no bismuth.



American: 1750-1850, in general use; made in 28 cities. Keen English competition; existing pieces, about 100 to 1 American. Little pewter marked before 1750; eagle used after Revolution, especially 1790-1829. Over 30 kinds of articles; styles unchanged until about 1825. Pitcher, coffee-pot and urn, tea-pot, sugar bowl, pitcher, and lamp, the latest and final accomplishment. Bowls, basins, plates—6 1/4 to 15 inches in diameter, porringers, mugs, tankards, flagons, beakers, goblets, spoons, ladles, candlesticks, warming-pans, cuspidors, inkwells, but-tons, etc.

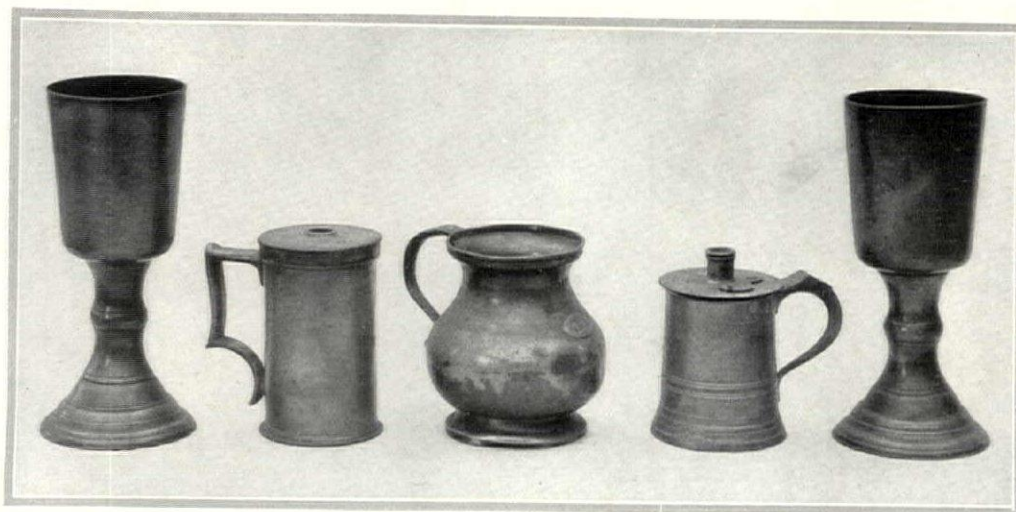
Armorial: Coat-of-arms frequently marked on English pewter, occasionally on American. State coat-of-arms most common.

Articles: Cooking utensils and table service in pewter cover the whole range of necessary articles, especially: basin, beaker, boar's head dish—large charger; bottle—pilgrim, or harvester; food bottle, and other types; bowl—various shapes and sizes, punch, etc.; box—candle, money, patch,



(Top of page) English alms dishes and flagons made about 1710. Porringer with ear handles. (Above, center) Mid-19th Century American pewter lamp. All photographs are by courtesy The American Art Association—Anderson Galleries, Inc.

(Left) Large American 18th Century beef platter with gravy well. In the lower right hand corner is an 18th Century English flagon cup. Both the ear-handled porringer and the small jug shown in this illustration are old American pewter pieces



The group of early 18th Century pewter above includes a pair of chalices and lamps of cylindrical and bulbous types. To the left is an American beaker with slightly flaring lip and molded mid-section and base. By Boardman & Hart, 1830

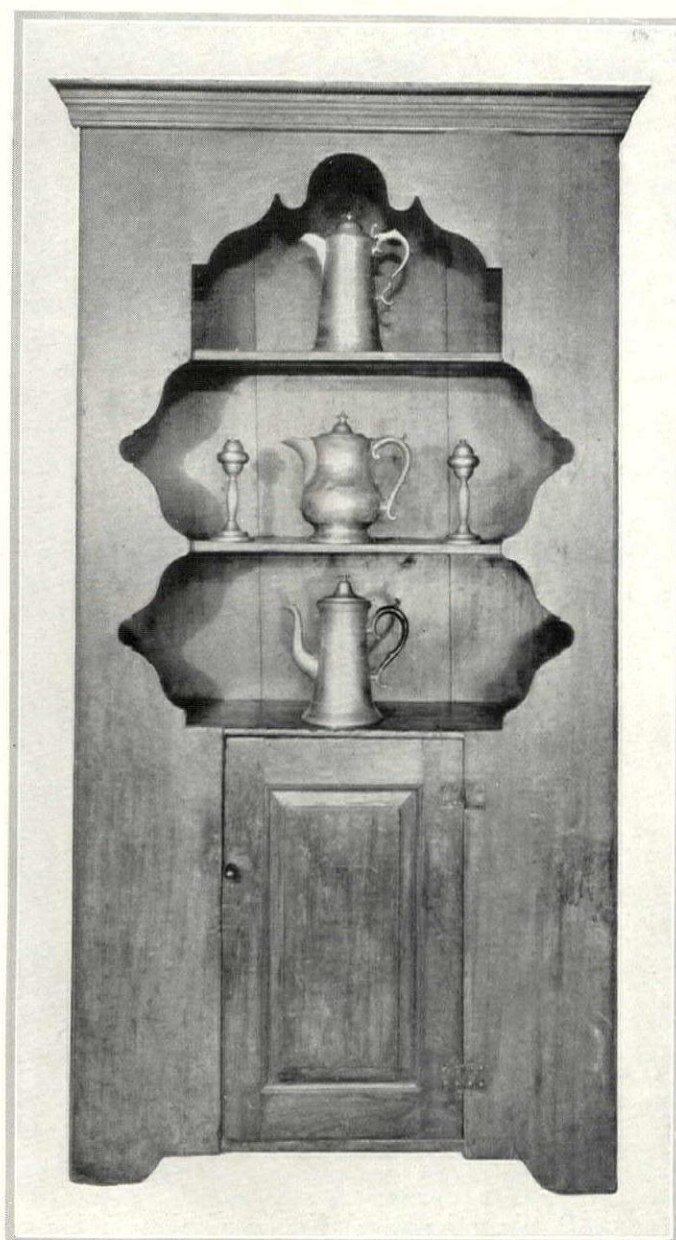
In such simple scrolled-work pine cupboards as the one below was American pewter displayed in the 18th and early 19th Centuries. All the pewter on its shelves was made between 1824 and '30. At the right is an American mug, circa 1780



pepper, powder-puff, pounce, sand, salt, snuff, spice, tobacco, etc.; caddy for tea; canister for herbs, etc.; carafe, caster, chocolate-pot, cistern, coaster, coffee-pot, colander, creamer—cream-pitcher, cruet—cruse, egg-cup, ewer—rose-water, etc.; fish drainer, fish slice; flask; flat-ware—knife, fork, ladle, spoon, plate, dish, etc.; funnel, grater; hollow-ware—mustard pot, pot, pitcher, etc.; hot water dish or plate, pap-boat, pitcher, platter, pot, salt-cellar; salver, tray, or waiter; sauce-boat, saucer, soup tureen; sugar bowl, and sifter; sweetmeat dish, syrup jug, taster, tea-pot, toast and water jug—really an ale-pot, vegetable dish. Miscellaneous: badge for servants, etc., ball bottle stopper; barber's bowl cut out to fit neck, bleeding bowl—also called bleeding dish, blood porringer, and cupping dish; buckle, button, candle-mold, clock, clock-face, coin, ink-stand, mace, nef—boat in silver fashion, organ-pipe, perfume sprinkler, shaving-dish, snuff-box and mull, toy.

Ashberry Metal: English; very hard alloy, about 25 per cent antimony.

Badge: English, Scotch; for servants, porters, beggars, etc.;



worn on sleeve or breast. Ancient English pilgrim badges.

Bleeding bowl: English; also called bleeding dish, blood porringer, cupping dish, and barber's bowl. Small, shallow basin with pierced ear handles, resembling American porringer; used for bleeding or cupping patients.

Boar's head dish: English; large circular dish or charger; 25-28 inches in diameter; 3½ to 4½ inch rim.

Booge: Curve between rim and flat bottom of plate.

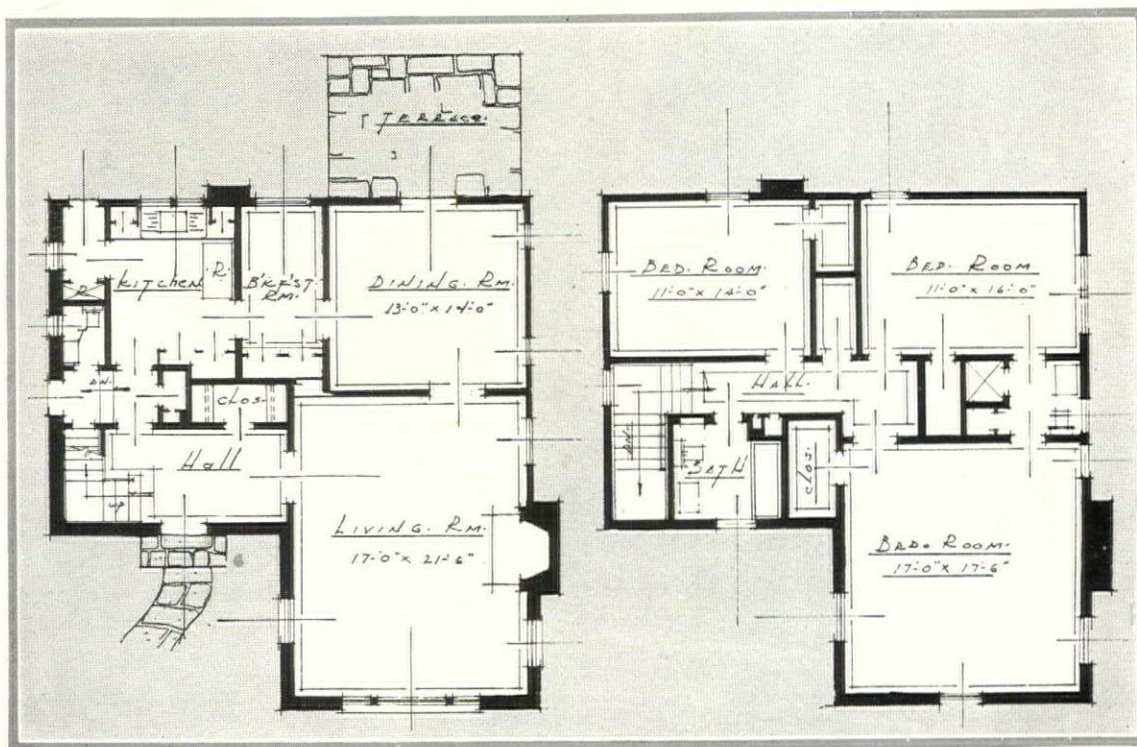
Bottle: Various sizes and uses. Pilgrim, harvest or harvester, or costrel—flattened round body with short neck. Food bottle—hexagonal and other forms, English. Snuff-bottle—small.

Bowl: English and American; various sizes and uses. Basin with ewer for washing hands. Bowls for dishwashing, mixing, serving, and eating. English—15th Century and later, small *bolles*; occasionally 13 inches in diameter. Large punch bowl and ladle, 18th Century, rarely beaten from sheet metal. Barber's bowl, rim cut to fit around neck; 17th Century examples with floral decoration—rose, tulip, thistle, etc. See Bleeding bowl.

(Continued on page 104)



Lowrey—Still Lensart



Seldom in small house work have so many types of surface materials been successfully combined as in the residence of A. J. Gentholt at Shaker Heights, Ohio: brick, stone, plain siding and clapboards have been used. The roof is of slate.

In the front entrance hall is the beginning of the stairway to the second floor. Stairs to the basement from the service hall utilize headroom provided by the other staircase. The living room is at the front of the house, with the dining room directly behind. A breakfast room separates this from the kitchen. Three bedrooms and two baths are on the upper floor.

Dunn & Copper
Architects

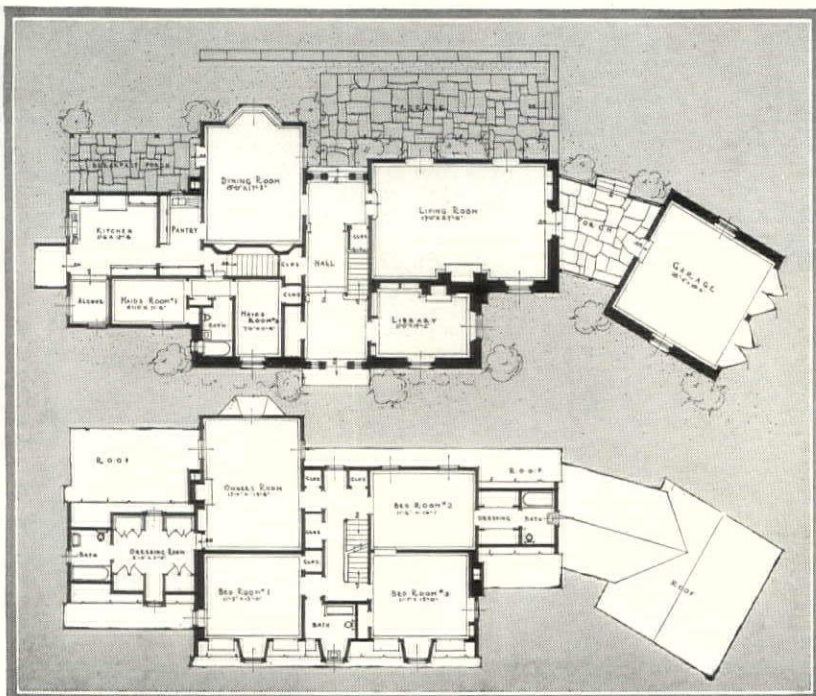
A Pleasing Variety Of Surface Materials Merge



Richard Averill Smith

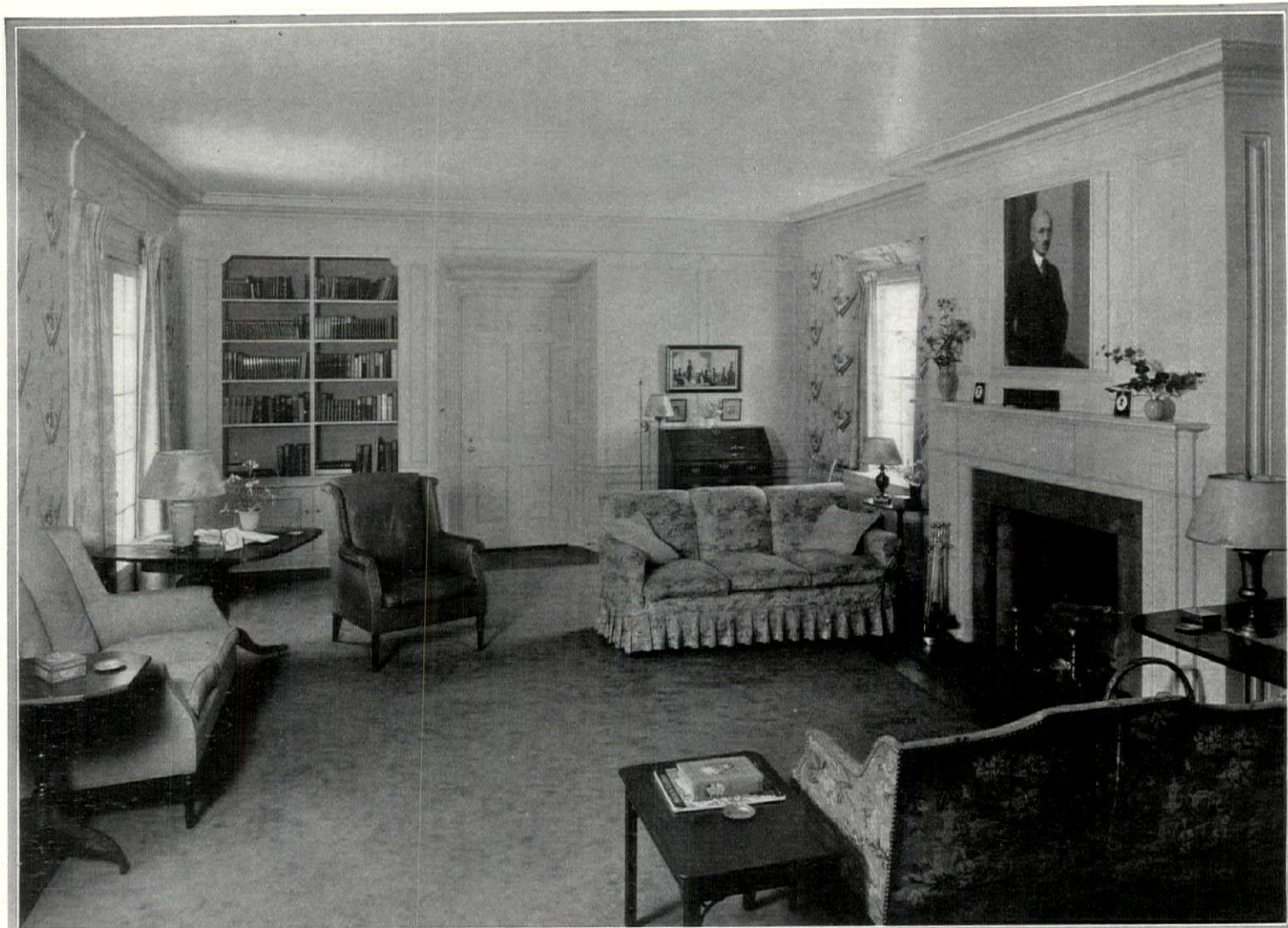
A Colonial Type House Presents Diverse Faces

Aymar Embury II, Architect

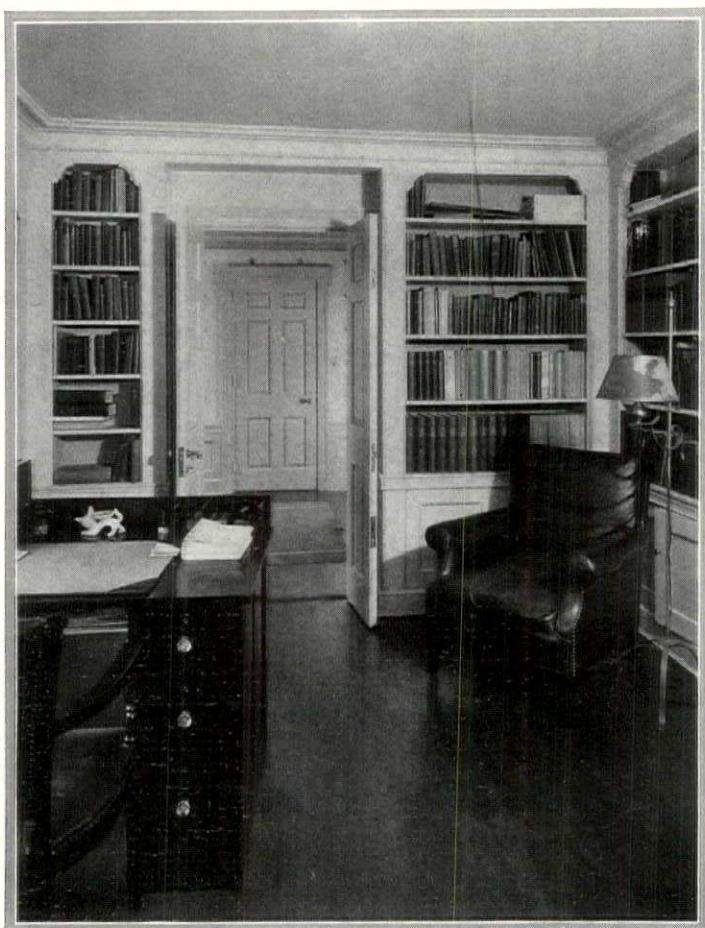


From its street façade, shown immediately above, the home of Mrs. Philip Bard at Princeton, N. J., gives the impression of a small Colonial type dwelling lifted well above the average by excellent proportions and really superb details of cornice, doorway and dormers.

While the excellence of its architecture is certainly true, the house is considerably larger than the front face implies. Generous depth and extended wings afford the additional space. The garden elevation, at the top of the page, is handled very differently from the opposite side. Here shingles have replaced the whitewashed stone walls and the general effect is much more informal



Richard Averill Smith



The fine detailing so noticeable on the exterior of Mrs. Bard's residence has been carried into the interior with great success. One side wall and the projecting portion of the fireplace wall in the living room above are paneled. Deep wood cornices head the other walls. A portion of the library is shown below. At the top of the opposite page is the entrance hall, looking to the rear door. This hall is house-deep—connecting front and rear entrances.

The dining room faces to the rear, with its outside end projecting out beyond the main body of the house, allowing exposure on three sides to permit maximum light and ventilation. A large bay window overlooks the garden and a French door opens to a stone paved breakfast porch. Furniture in the dining room and throughout the house is mainly 18th Century English and American pieces. Aymar Embury II was the architect of this residence.

**Fine Interior Architecture
Produces Backgrounds Of
Distinguished Character**





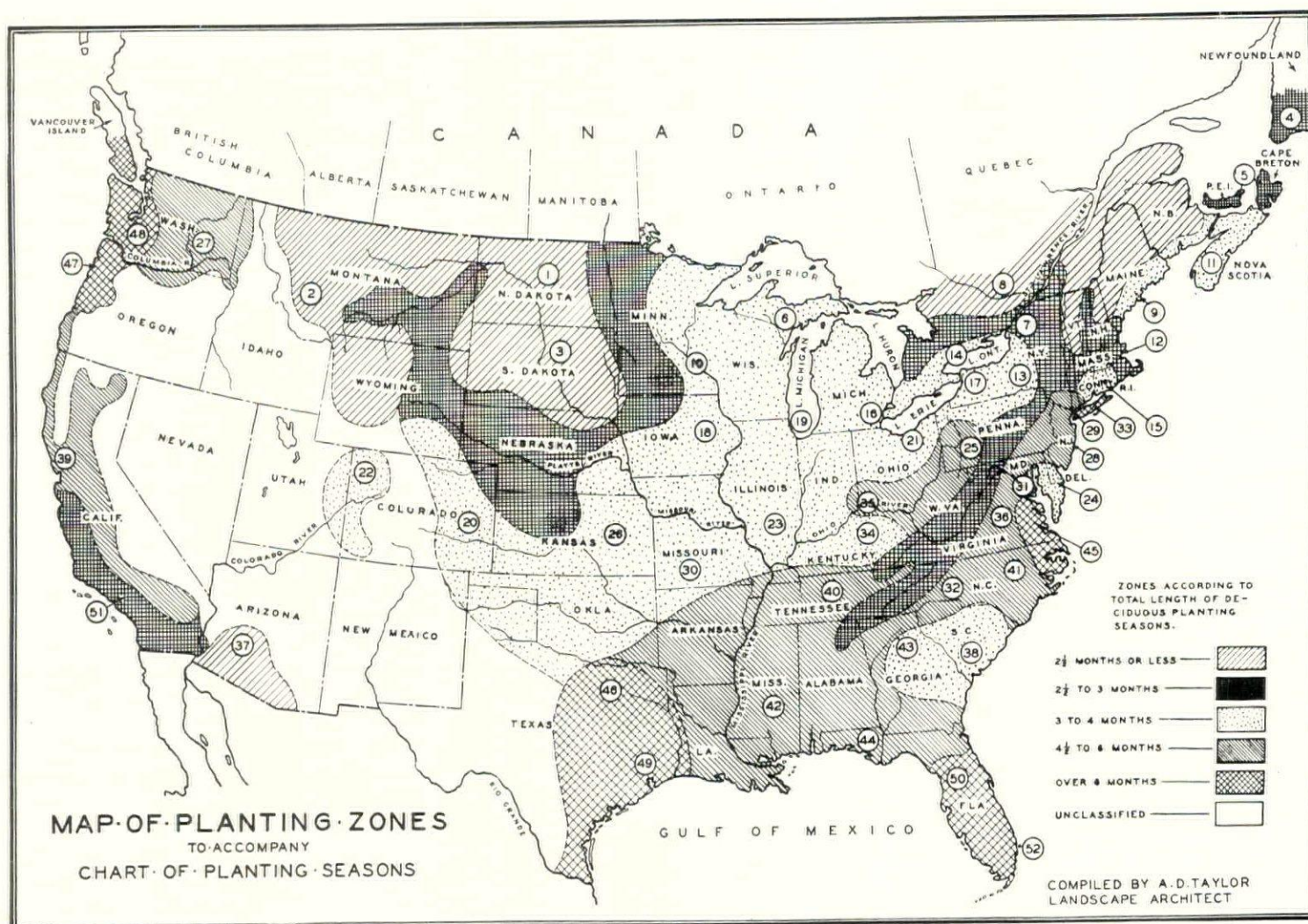
Nyholm & Lincoln

As modern as its location on a narrow terrace in the air are the furniture and decorations of this sky verandah outside a New York city apartment. On the wall side is a semi-circular fountain of fluted concrete lined with pale green tiles and embellished with red and black mosaics, laid herringbone fashion. The water ripples down over a colored glass panel which is softly illuminated at night. Surrounding the enclosure is a low wall on which is mounted an ornamental iron fence paneled in monel metal



All the furniture on this roof, as well as the fabrics, are weatherproof. Reversible cushions on the natural rattan chairs are covered with a lacquered, washable and sunfast material in brilliant red and blue, on opposite sides, welted in black. Tubular aluminum armchairs have seats in the striped canvas used for the awning—blue, red, black and tan. Concrete flower boxes inlaid with red and black mosaics contrast pleasantly with the gray-green brick walls, blue window frames and terra cotta tiled floor. (Left) Monel metal and black glass table and aluminum chairs with blue seats. Eugene Schoen was the architect

Furnishing A Sky Verandah With Wicker And Modern Metal Pieces



Planting And Seeding Seasons Throughout The United States

Albert D. Taylor

THE study of planting seasons is a most fascinating story. In our great country, covering approximately 3,000,000 square miles and measuring approximately 1,600 miles from north to south, there is a wide variety of topography, and a difference in elevations from sea level to mountain ranges averaging 14,000 feet. There is no single country in the world, with the possible exception of Russia, which enjoys such a wide variation in climatic conditions. Our plant enthusiasts may enjoy the variations in plant materials ranging from those adapted to the southernmost part of Florida in the tropical zone, to the very hardy trees and shrubs adapted to the cold climate of Minnesota and North Dakota in the Canadian zone. If we shall venture beyond the border and into Canada, we will find an

even greater range of planting problems.

Climate with its wide variations in seasons naturally bears very directly on problems of planting which, with few exceptions, is normally done during the dormant season or during the "resting period" in plant growth. The majority of our plant materials have a period of very active growth followed by a period of ripening and this period is followed by a "rest period" known as the "dormant condition." In addition to the direct effect of climate upon planting problems, we further find that seasons for planting are affected by local conditions of soil, rainfall, snowfall, sudden local changes in temperature, conditions of exposure, relative elevations from lowland to mountain country, and proximity to large bodies of water.

The information contained in this article has been accumulated over a period of approximately ten years. During this period the author has verified and checked, through as many sources as possible, the conditions relating to lengths of planting and seeding seasons in various parts of the United States and Canada. Much credit is due to the many individuals, too numerous to mention, who have coöperated in this important work and who have given to the author the benefit of their definite experience in the localities where they have been working. In connection with each of the stations, representative of the general conditions in the surrounding territory shown on the map of planting zones, as many opinions as practical have been obtained. Where these opinions concerning the length

of the planting and seeding seasons, or the location of the dividing lines between the different sections of the map, varied to any marked degree, the author has carefully checked with the sources of information and with new sources of information to make certain that the average normal season has been selected. The information has been collected from landscape architects, park superintendents, estate superintendents, gardeners, nurserymen, experiment station workers and other people who customarily plant large quantities of ornamental plants each year.

The stations from which information has been secured were selected so as to cover, as nearly as possible, the centers of greatest activity in each of the different climatic zones shown on the accompanying map of planting zones. The primary intention is to make this information available and of real value for those places where the largest volume of ornamental planting occurs, or is likely to occur.

The value of the charts is very great as a guide to those who have given little study to average planting seasons and, especially, to those who may have occasion to solve planting problems in parts of the country other than where they have been living. The charts make a most interesting study in relative seasons as one goes from the north to the south or from ocean level to mountainous country. They show some unusual facts concerning planting seasons, as explained in the following paragraphs, and concerning which only careful study reveals the real conditions.

The data collected at many important stations throughout the United States has been plotted on the charts, in a sequence largely based upon the length of the planting seasons for *deciduous* plants. These charts show, first, how the total number of available planting days in a year is reduced very materially along the northern boundary by the long and unfavorable winter season which creates well-defined short spring and fall planting seasons, and, secondly, how the reduction in the length of the unfavorable winter season, as one follows the stations southward or toward the coasts, does not very materially increase the total number of available working days except in a few locations, *until the winter season becomes the working season.*

These charts have been prepared to cover the most important general classifications of plant materials used in landscape work, namely evergreens, deciduous hard wooded material, and lawn grasses commonly grown from seeds. Opposite each of the stations listed in these charts for the planting seasons are shown graphically the average opening and closing dates for planting in that locality, and one may assume that normal planting operations may continue

The charts on this and the following pages show graphically the planting seasons in various parts of the United States, and the number of days during which conditions are likely to be favorable. They are the result of ten years' careful investigation by one of America's foremost gardening authorities

at any time within those limits. The average total number of planting days in each year is also shown. This covers the actual number of days for planting operations, deductions having been made for Sundays.

It is obviously impossible in any tabulation or chart covering the United States to give detailed consideration to the many exceptions to the normal planting and seeding seasons which are caused by small variations in altitude, conditions of soil and exposure, and methods of handling stock. Wherever important exceptions to the general ideas underlying the chart and map have occurred, the author has endeavored in this article to note some of them.

Information such as is compiled in this article is often too technical and not arranged in a way which is of practical value to the average home owner. For those who have not studied a tabulation such as is contained in the charts, the following explanation may be of assistance.

If one desires to determine the length of a planting season for deciduous plants such as Lilacs, Viburnums, etc., under Cleveland conditions (Station 21), he will note on the chart that the line indicating the average length of the spring planting season begins at approximately the end of the last week in March and ends with the close of the third week in May. Since no one can definitely determine in advance planting seasons which are so dependent upon the varying weather conditions from year to year, the length of these seasons as shown by these tabulations must be considered as

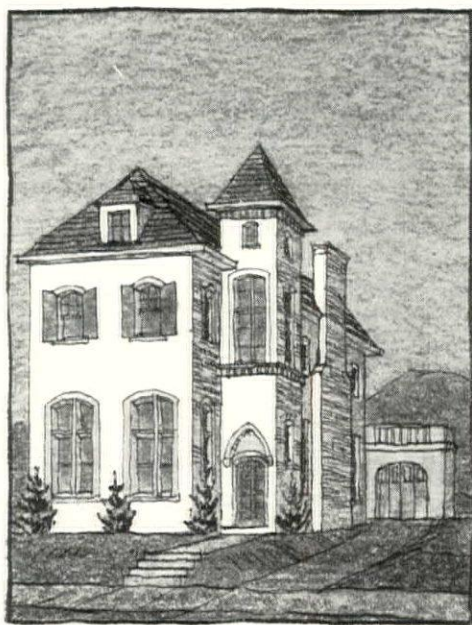
(Continued on page 128)

[illegible]

NO.	LOCALITY	TYPE OF MATERIAL	P L A N T I N G S E A S O N												AVERAGE TOTAL DAYS YEARLY
			JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	
31	WASHINGTON D. C.	EVERGREEN													180
		DECIDUOUS													117
		LAWNS													88
32	WESTERN N. CAROLINA	EVERGREEN													144
		DECIDUOUS													131
		LAWNS													98
33	LONG ISLAND NEW YORK	EVERGREEN													196
		DECIDUOUS													196
		LAWNS													90
34	CENTRAL KENTUCKY	EVERGREEN													175
		DECIDUOUS													104
		LAWNS													120
35	CINCINNATI OHIO	EVERGREEN													118
		DECIDUOUS													143
		LAWNS													92
36	CENTRAL VIRGINIA	EVERGREEN													191
		DECIDUOUS													146
		LAWNS													129
37	ARIZONA	EVERGREEN													102
		DECIDUOUS													52
		LAWNS													106
38	CAROLINA COASTAL PLAIN	EVERGREEN													106
		DECIDUOUS													100
		LAWNS													133
39	NORTHERN CALIFORNIA	EVERGREEN													92
		DECIDUOUS													116
		LAWNS													105
40	TENNESSEE	EVERGREEN													144
		DECIDUOUS													115
		LAWNS													101
41	PIEDMONT N. CAROLINA	EVERGREEN													127
		DECIDUOUS													118
		LAWNS													89
42	MISSISSIPPI	EVERGREEN													103
		DECIDUOUS													116
		LAWNS													140
43	CENTRAL GEORGIA	EVERGREEN													170
		DECIDUOUS													107
		LAWNS													65
44	E. GULF COAST REGION	EVERGREEN													128
		DECIDUOUS													114
		LAWNS													130
45	EASTERN VIRGINIA	EVERGREEN													203
		DECIDUOUS													156
		LAWNS													66
46	NORTHERN TEXAS	EVERGREEN													155
		DECIDUOUS													156
		LAWNS													90
47	PORTLAND OREGON	EVERGREEN													182
		DECIDUOUS													160
		LAWNS													90
48	PUGET SOUND WILLAMETTE R. VALLEY	EVERGREEN													180
		DECIDUOUS													168
		LAWNS													138
49	WEST GULF COAST REGION	EVERGREEN													156
		DECIDUOUS													156
		LAWNS													261
50	CENTRAL FLORIDA	EVERGREEN													313
		DECIDUOUS													104
		LAWNS													193
51	CALIFORNIA WEST COAST	EVERGREEN													313
		DECIDUOUS													78
		LAWNS													234
52	MIAMI FLORIDA	EVERGREEN													313
		DECIDUOUS													93
		LAWNS													218

Informal French Houses Give Hints To American Architects

Gerald K. Geerlings



When the American house tries to be picturesque in the French manner it usually assumes a false pose, with purposeless towers and other features. Details are apt to be assembled without real propriety and the charm of planting and surroundings is disregarded

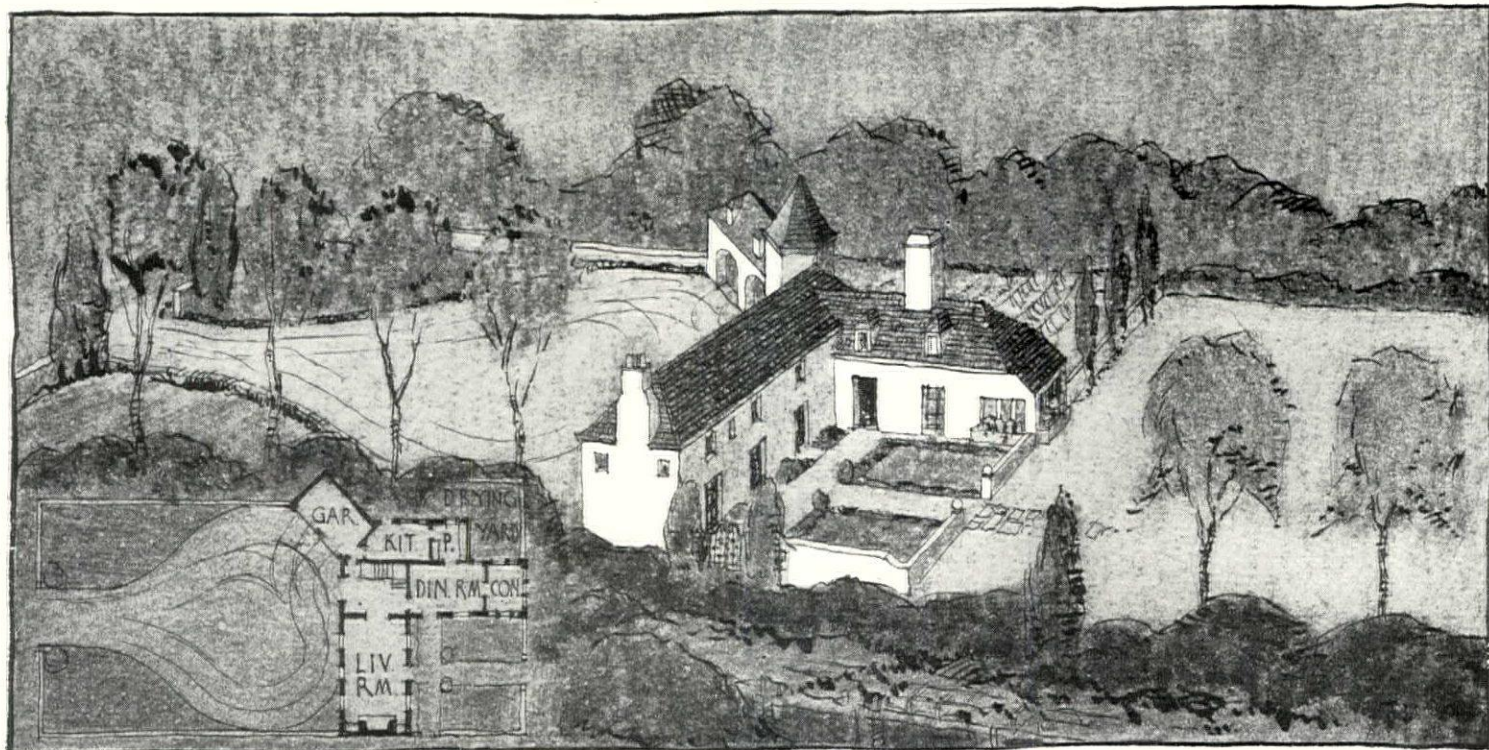


The erstwhile Abbaye Sainte-Croix near Guingamp, Brittany, is delightful in every architectural aspect. Adaptation of its features to the medium-sized house in America, especially as to tower and window treatment, would have to be very carefully managed

THERE are some architectural styles which are so archaeological that on meeting the owner coming forth one feels inclined to exclaim, "But my dear fellow, where are your cavalier boots, your ruff, and the plume in your hat?" And there are some others which have become so dried up and hackneyed that to their owners one can only mentally mumble, "Poor chap!"

Quite naturally one does not feel the urge to build a house of either type. Even though one had the funds to recreate a *maison de Jacques Cœur*, the feeling is that a house must be a part of one's workaday wear and not a museum exhibition piece. Turning to the French sector of possibilities there are ideas aplenty from all provinces—perhaps too many, for the abundance has led many a house to cut capers with details hailing from Provence to Brittany. *La belle France* has such a coquettish and convincing way of making every cottage and *grande maison* seem the very thing for your American home, that the temptation is to throw discretion to the winds and assemble from here, there and everywhere. But if your architect can catch the spirit rather than the letter, he will be able to fashion you a house which will be as American as yourself, yet with such a cultural background that it will serve rather to make it gracious

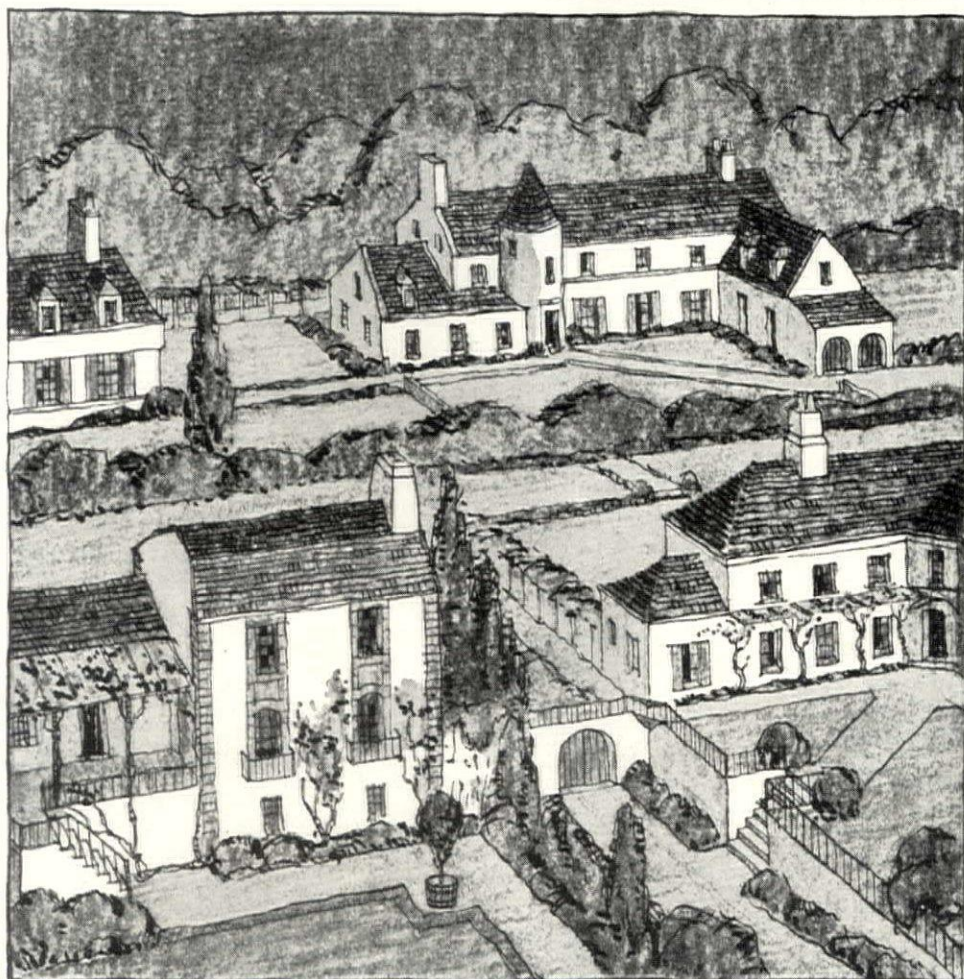
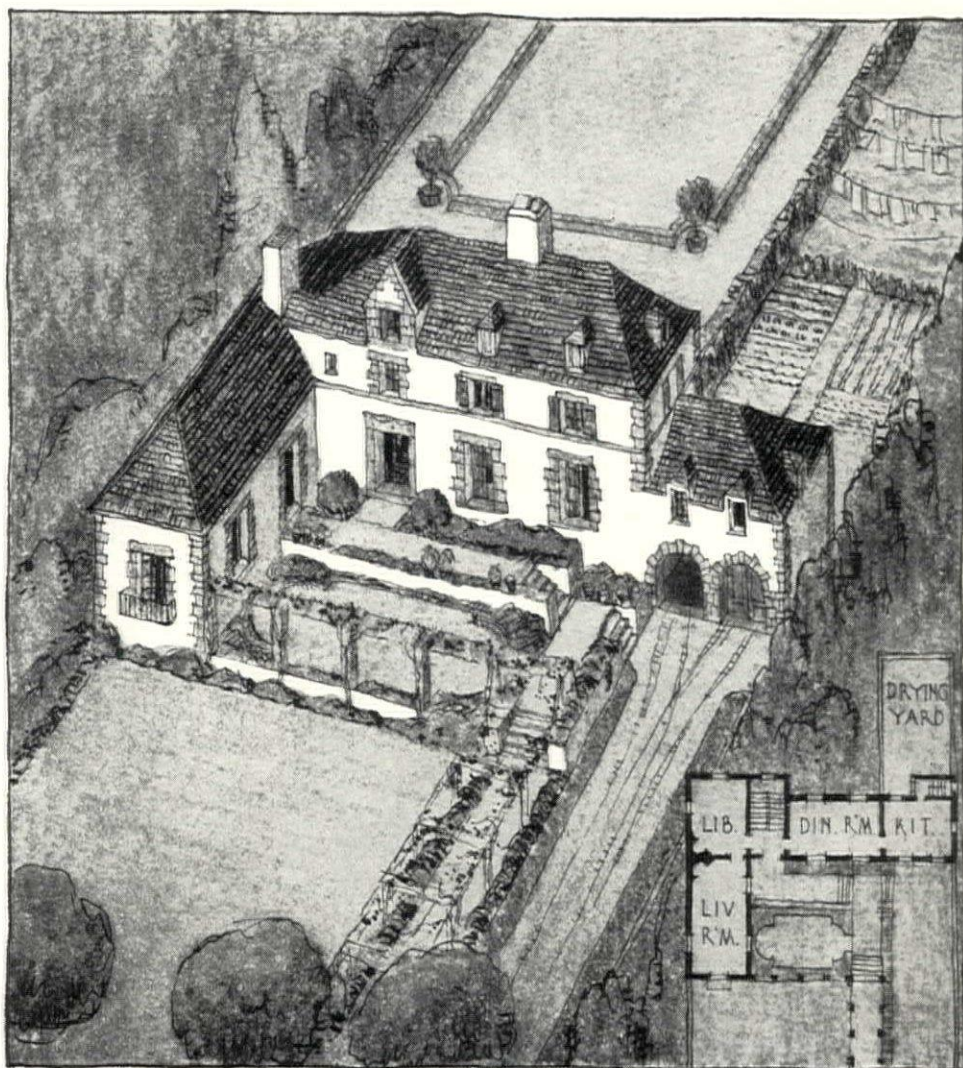
A modern house adapted from the informal French, with open forecourt and garage in front, small enclosed garden at the rear, and a kitchen yard. It may be enlarged by stages, provides cross-ventilation in the main rooms and affords a picturesque grouping



and intimate than "correct" and stiff-necked.

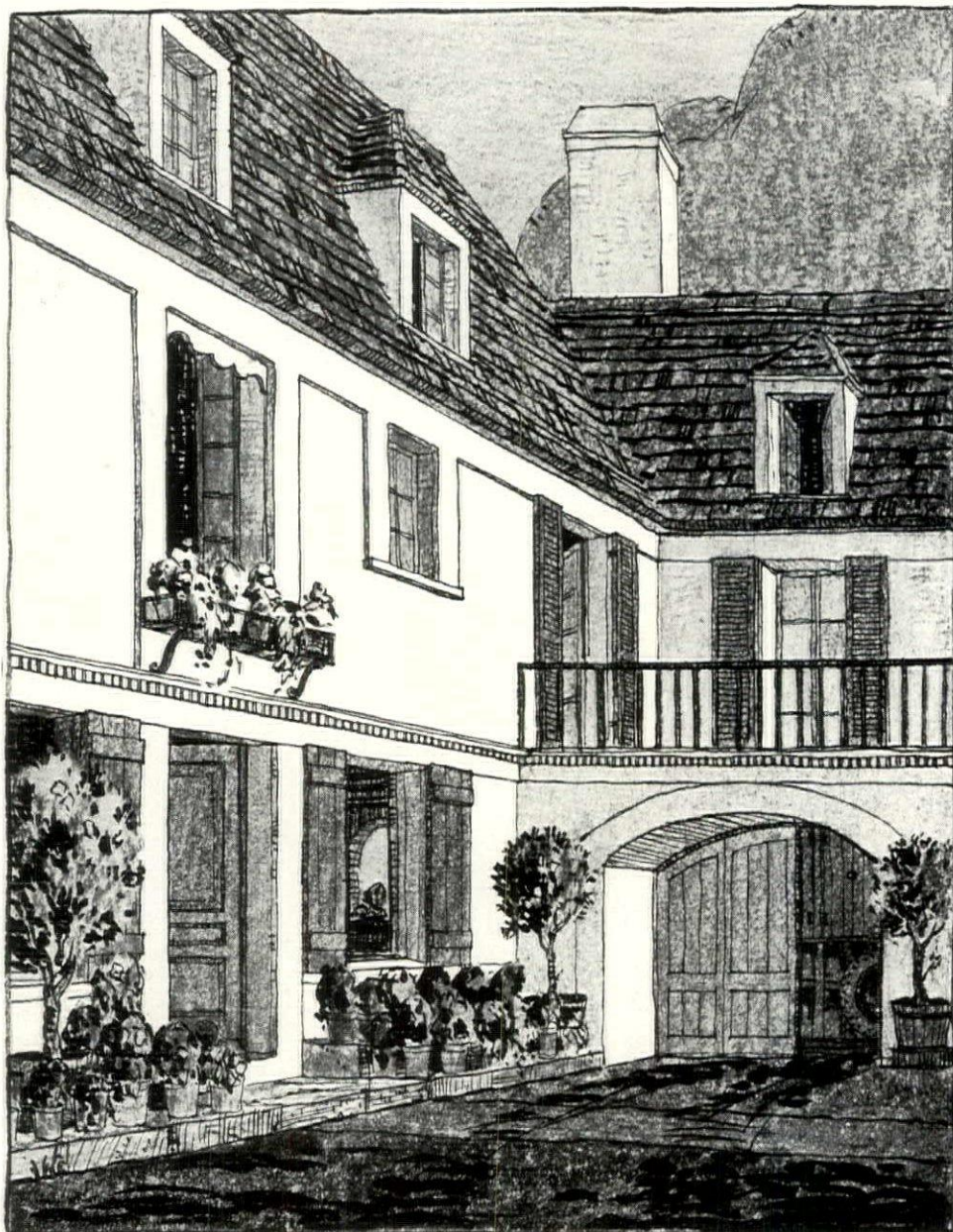
It is as difficult to draw complete representative compositions and details of the informal French house adapted to American needs, as it would be to delineate informal attire. Where to begin, where to end, what to select? It is impossible to cover the field. However, it is feasible to select a single golfing costume, another for sailing, one for lounging about and another for street wear. And similarly in the accompanying illustrations, there are houses for the flat plot and the sloping, various solutions for the garage and garden problems, and sundry details of roof, dormers, chimneys, doors and windows. There are certain to be others just as good or even better, as with any street ensemble which milady might select, but at least they indicate the general cut which is safe, economic and sensible to follow.

It is not national borders which separate one architectural style from another, but climate, indigenous building materials and prosperity. So it is but little wonder that in the south of France the architecture should be similar to Northern Italian or Northern Spanish, and in Normandy to be closely akin to the half-timber work of Southern England. There is therefore a variety of massing and details which runs the entire gamut,



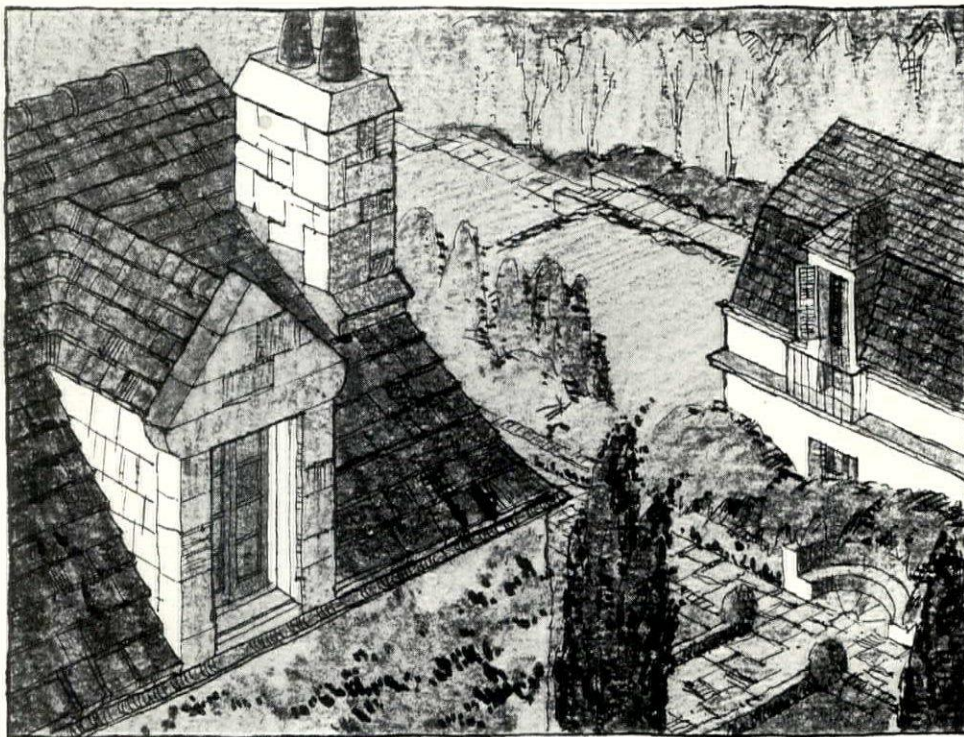
(Above) This suggested modern house on a flat plot provides a garage runway at the right, reaching the garage at the street level, while a pergola-covered walk leads to the house up two short flights of steps. Ascending two terraces, each distinctive, always adds to the general interest. The kitchen is above the garage and connected to it by rear stairs

The informal French house adapted to modern needs is especially suited to building in stages. At the upper right is a house which might well have begun with only the central two-story portion and tower. Additions to right and left could have been made at different times. The houses at the bottom emphasize the vertical and the horizontal, respectively



(Above) Suggestions from Burgundy: shutters folding back in a colorful pattern, a window with scrolled top, a wrought iron plant shelf which is decorative but does not interfere with door or window. Also the inconspicuous recessed garage doors and the potted plants on the steps

The simpler the roof details the better they are. At the left in the drawing is a stone dormer, with a gutter which is the only roof projection beyond the wall. A gentle curve starts the roof's upward swing. To the right, a wooden dormer with full length French doors and divided shutters



and a usage of materials embracing stone, brick, plaster and half-timber. Yet withal the well-built houses of the French *bourgeoisie* and peasants are the same in essentials from one boundary to another: they were built to serve a purpose—not erected for mere picturesque effect. They were built with a craftsman's directness and simplicity so that they have outlived the centuries probably better than those produced in any other country.

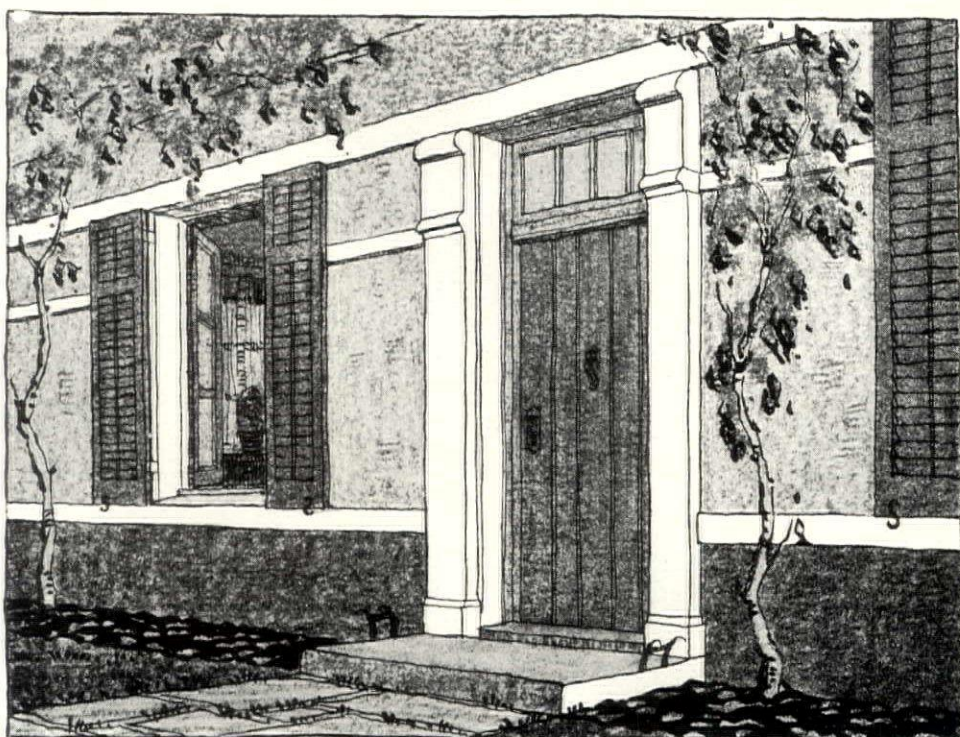
So well have French houses been constructed that many which were originally Gothic half-timber have since been plastered over in the manner of the Transitional or High Renaissance, if not in some subsequent period. Having undergone and survived successive periods, many of them offer excellent suggestions which point the way at this time when the vogue rightly favors simplicity and frank expression of utility. To build well is more sound real estate sense than we appreciate, we who build a house to last only for fifteen years and then move into another new one. Instead of a decreasing valuation after the first ten years, were we to build as well and artistically as in France, the mellowing and weathering and planting would serve us as profitably as the staunchly-built and now highly-prized houses of the Colonial high-tide, and more than offset any necessary plumbing or heating renovations.

When we see a colorful or picturesque French feature it is only natural to like it to the extent of wanting to duplicate it. To do so seems such a simple matter. The architect has only to repeat dimensions, ma-

terial and color. But the result is likely to be as much like the original as any stuffed bird in a glass case is like its relatives still singing in their native haunts. What looks natural to a French house is due in part to its perfect relationship to everything else around it. But take it bodily to your taxidermist, surround it by sawed off branches and a painted scenic background, and you will not get the color, the luster or the music you expected. Preferable by far is it to ask your architect to begin by giving you the number of rooms which you require, laid out conveniently and in such manner that additional ones may readily be added. Do it as imaginatively as possible, and if there be a job which can be given to a tower, employ it—otherwise not. If it works out so that a garage can be at a lower level, with interior stairs as well as exterior terraces leading up to the main living floor, all to the good. If the garage must be at the living floor level, try to make it deserving of its proximity by some such forecourt means as those that are suggested in the accompanying drawings.

In any case, even though the style your house adopts is not informal French, it is well to remember that the more private your house is to the outside world, the more inviting it is to anyone who enters its outer compass. The house which stands by itself on stilts in the middle of the most valuable one-thousand-acre site will not look as much like a "home" as the one which is surrounded by genial planting and forecourt walls on the smallest and meanest plot in

(Continued on page 114)



The garage may be a picturesque asset when it adjoins a stair tower. Entrance to the house may be by interior door to the tower, exterior door at court level, or exterior stair to living room. Plastered walls with stone quoins are a Breton combination. All drawings are by the author

From Semur come these suggestions for a plaster house. Horizontal bands, sills, windows and door frames are cream, shutters and doors apple green, base band mulberry, walls apricot. Grapevines are on wires above windows. An intimate forecourt makes the entrance sufficiently imposing

Recent Developments In Building And Residence Equipment Fields

Gayne T. K. Norton

A POPULAR insulating material has been combined with a metal plaster base in such a way that both may be installed as one unit. The diamond mesh lath serves as a permanent and rigid base for plaster, yet no plaster comes in contact with the insulating material to impair its value. This metal insulating lath is supplied in 24 by 48 inch sheets which are to be butted together, the fibers interlocking and forming a continuous insulating sheet. The lath may be either nailed or stapled into place.

LIGHTED MIRROR

A MIRROR-FACED bathroom cabinet, or merely a mirror if preferred, has slots along its vertical edges in which are electric light brackets that slide up or down to a desired point. Lights can be placed just where needed for best illumination.

There is no exposed wiring, no clips, nuts or adjustments, nothing to take care of, nothing to cause trouble. Cabinets are of welded steel, doors are of die-cast white brass, lamp brackets are chromium plated. Boxes and doors are lacquered in a variety of color combinations. These edge lighted cabinets come completely wired and assembled. Installation is simple and inexpensive. But a single outlet is required.

STEEL JOISTS

TO MEET the demand for economical, lightweight and fireproof floors, an open truss steel joist has been developed. So made as to have high resistance to buckling strains, pressure electric welding is used to make positive connections at all joints. Under-slung design permits maximum head room under supporting girders. The open web allows the passage of pipes and conduits of any number and in any direction.

Suited to use in all residences, economy is gained through light weight and rapid erection. A concrete slab, giving the very important fireproof floor construction, is usually laid over the tops of these joists. Wood nailing strips are embedded in the concrete and wood floors may be nailed

Month by month this page records newly developed materials and devices of particular interest to those who wish to have the construction and equipment of their homes up-to-date. Each product is actually available for purchase. Names of respective manufacturers will be furnished on request to House & Garden's Reader Service

securely to them, giving any kind of a finish floor desired. If preferred, the concrete can be troweled smooth, nailing strips embedded close to walls, and carpet laid and tacked.

A metal lath and plaster ceiling should be applied to the under side of the joists. This construction, but slightly more costly than the heretofore more conventional form, gives a floor of permanence, free from shrinkage and the cracks and squeaks that result, and absolutely firesafe.

BUILDING PAPER

MODERN thought has converted building paper into a much more vital factor in building economy. This product now serves many purposes and is so strong it can hardly be torn. Two layers of kraft paper, two of asphaltum and non-elastic, untwisted crossed fibers are formed, by heat and pressure, to produce a product so waterproof it will hold water for months and so rugged, we are told, no weather will affect it.

Careless application will not damage this new paper; it is applied without battens. Thus in walls and under roofs unbroken protection is secured, entrance of moisture and infiltration of cold air are stopped.

Under hardwood floors, this paper is bent up four inches about the base and the base-board brought down over it. This provides a cold air stop and also a stop against dust, smoke, gases and vermin. As moisture is prevented from coming up, a major cause of cupping and buckling in floors is eliminated.

Flexibility is such that builders can carry it around the heads, sills and jambs of all openings for frames. It can also be carried around corner posts both ways, over roof

ridges and to the bottom of roof valleys.

Curing sidewalks and basement floors is another use for this paper; here it assures strength, density and hardness, and at the same time protects against stains, construction dirt and abrasions.

If the tennis court is covered with it in fall, the ground will not absorb so much moisture during the winter, and heaving of the earth when frost comes out will be far less. It is an excellent protector of plants during the cold weather.

HANDY DRAINER

THERE is a world of service in a little appliance for making easy the filling or emptying of washing machines. When it is attached to laundry faucets, one may run mixed cold and hot water into the tubs or, through a separate hose, into a washing machine. After adjustment, when water is sent directly into the tub the side hose becomes a syphon that empties the machine. The device does not have to be changed about from one faucet to another. There are no moving parts; it will wear for a lifetime. There is also a faucet adapter that converts any smooth faucet into a standard threaded type in order to permit easy attachment of the drainer or other device.

RADIATOR CONTROL

A THERMOSTATIC device is offered for automatically and individually controlling the steam supply to each radiator on two-pipe systems. This good looking little unit gives temperature control to each room.

As long as an adequate heating system is in operation, the elderly occupant of one room may bask in a temperature of 80 degrees, while the young son may keep himself "hard" in a room where the thermometer registers 68 degrees. An atmosphere at a predetermined constant is always maintained regardless of changes in pressure or variations in outside temperature.

This device, small and easily regulated, is designed to control the difficult times when

(Continued on page 110)

Dooryard Gardens Bring Charm To House Entrances

L. & J. Bush-Brown

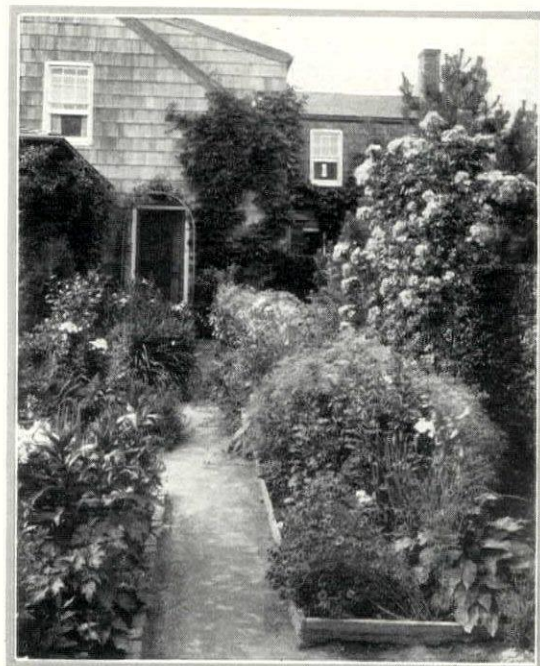
WE hear a great deal these days about the better planning of the suburban lot. Everyone will agree that the present practice of placing the house near the street and allowing as much space as possible in the rear which may be used as a garden area is infinitely preferable to the old method. A generation ago and even a few decades ago, it seemed to be a generally accepted fact that the only possible future for any ground in the rear of the house was that of being a backyard. And what a dreary prospect it was for any piece of land—just to be a backyard, filled with clotheslines and ash cans, with perhaps a bit of a vegetable garden or a fruit tree or two as redeeming features! Today we have come to realize the great advantages of the house so planned that the kitchen and concentrated service area are toward the street and the living quarters open upon the garden at the rear. Fortunate indeed are those of us who dwell in such a home or who have been able to convert our old-fashioned back yards into pleasant outdoor living quarters.

There are thousands of houses, however, scattered throughout the country, built according to plans which are far from this ideal, and in many cases it seems an almost hopeless undertaking to attempt to do much of anything with their backyards. Since the advent of the automobile, the garage and driveway have, in many instances, cut a considerable slice off the yard area in the rear and with the kitchen and cellar doors opening out upon it, it often seems wiser to let it serve its humble and utilitarian function of producing a few vegetables or providing a play area for the children rather than to attempt to convert it into a garden spot. Where circumstances of this sort exist one wonders where one can grow a few flowers in order to have a

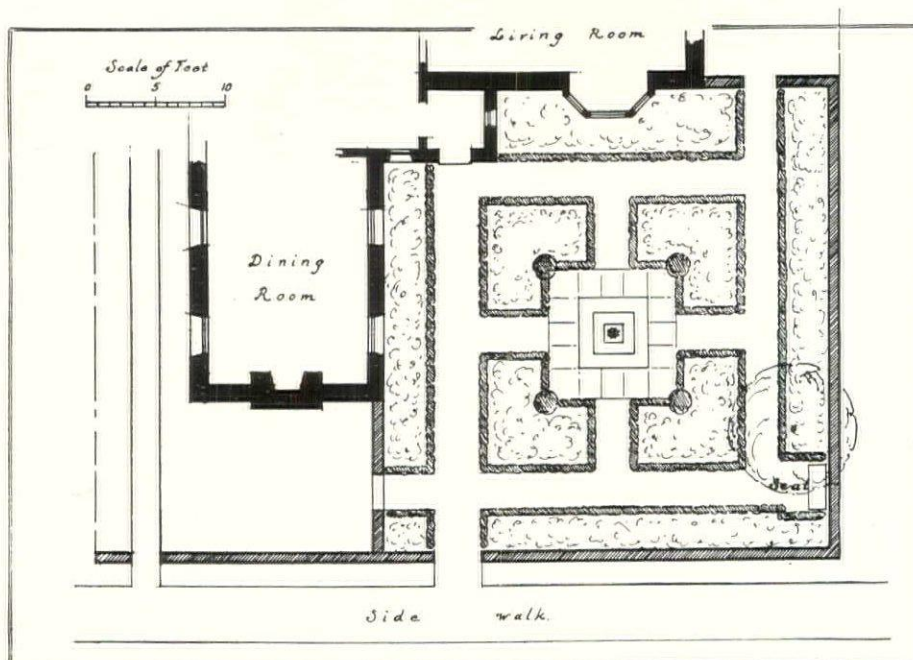
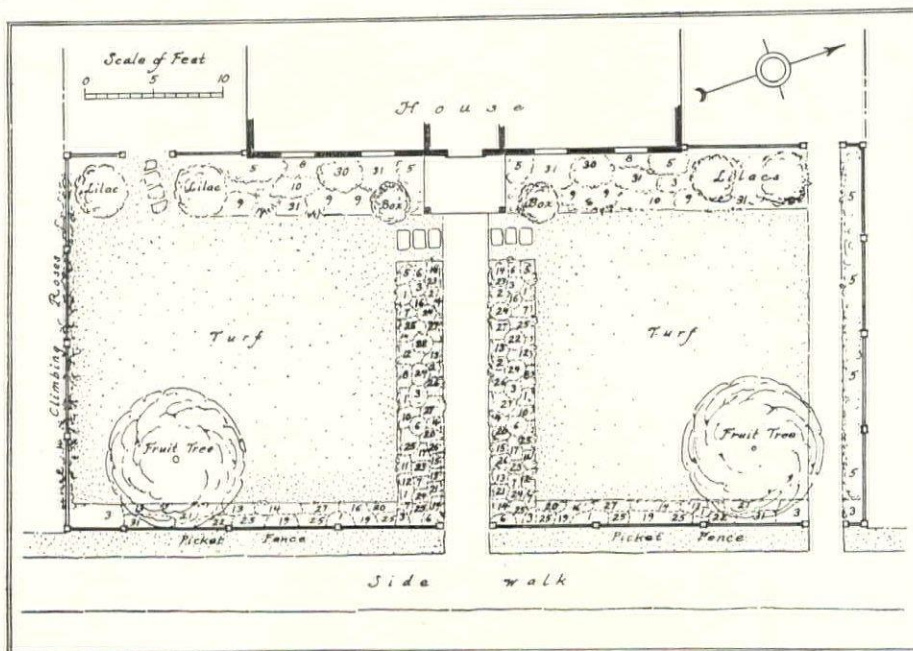


Mattie Edwards Hewitt

The dooryard garden is naturally associated with houses of a cottage character, for it is an essentially intimate sort of planting. One of its best expressions is found along such entrance walks as this one



The more luxuriant a dooryard garden is, the greater the appeal that it is likely to make. It is one type of planting where informality can be allowed the fullest possible sway in both plant selection and placing



Key To Planting Plan

- | | |
|--|---|
| 1. Hardy Chrysanthemums | 16. Tulip, Clara Butt |
| 2. Annual Stocks | 17. Tulip, Moonlight |
| 3. Daylilies (<i>Hemerocallis</i>) | 18. Tulip, John Ruskin |
| 4. Mignonette | 19. Tulip, The Bishop |
| 5. Hollyhocks | 20. Snowflakes (<i>Leucojum vernum</i>) |
| 6. Beedingheart (<i>Dicentra</i>) | 21. Checkered Lily (<i>Fritillaria</i>) |
| 7. Phlox, Elizabeth Campbell | 22. Gladiolus, Alice Tiplady |
| 8. Phlox, Miss Lingard | 23. Gladiolus, Shell Pink |
| 9. Peony, (<i>Festiva maxima</i>) | 24. Columbine (long spurred) |
| 10. Sweet Rocket (<i>Hesperis</i>) | 25. Iris (<i>Pallida dalmatica</i>) |
| 11. Honesty (<i>Lunaria</i>) | 26. Sweet William, Newport Pink |
| 12. Garden Heliotrope (<i>Valeriana officinalis</i>) | 27. Snapdragons, pink, yellow, white |
| 13. Hardy Garden Pinks (<i>Dianthus plumarius</i>) | 28. Lilac (<i>Syringa vulgaris</i>) |
| 14. Narcissus, Mrs. Langtry | 29. Boxwood (<i>suffruticosa</i>) |
| 15. Narcissus, Sir Watkin | 30. Brier Rose, Harison's Yellow |
| | 31. Plantainlily (<i>Hosta plantaginea</i>) |

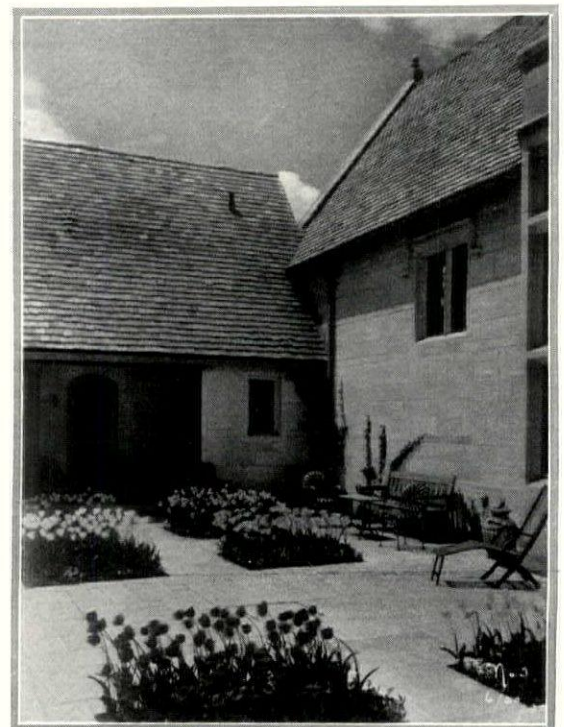
Dooryard gardens in the old days were enclosed by fences or walls, chiefly for reasons of protection. Today the need for privacy is added to the value of such enclosure and gives especial merit to designs like the one above

An unusual type of modern dooryard garden is found in this Maine residence designed by John P. Thomas. A wing of the limestone house forms a logical place for a paved court, simply furnished and accented by Tulip beds

bit of bloom and color during the summer months, and the dooryard garden seems to fill this great need.

In England these little dooryard gardens are to be seen everywhere. Most of them are very simple and unpretentious and yet they are perfectly charming. Throughout the rural districts every little cottage has something in the way of a garden and in the villages, even though there be but the space of a few feet between the dwelling and the street, it is filled with flowers. Many of these little gardens look today very much as they must have looked in the day of Queen Elizabeth, for they are filled with old-fashioned flowers and they possess a quaint, romantic charm. They give one the impression that they have remained unchanged through the passing years. In the little Cotswold village of Bibury-on-Coln there is a row of picturesque stone cottages, separated from the village street by hardly more than a foot of ground, and yet before each cottage door there is a bit of garden. In this country, where we have been so profligate with land, we would not have thought such a trifling strip worth bothering with, but not so in England. There, no plot of ground is too small to be thought of in terms of a garden.

When our forefathers came to this country from England they brought with them this inherent love for gardening and old records tell us that hardly had their homes been established in the wilderness of the New World before there were flowers growing in their dooryards. Naturally





enough these ancestors of ours planted gardens here similar to those which they had known and loved in their native England and so it came to be that one of the earliest expressions of garden design in the Colonies was the dooryard garden. It was the simple, logical outpouring of a love for flowers and for the beautiful. In the early days of the Colonies there was little time for anything save the struggle for a bare existence and yet many a good housewife must have found a few moments during her busy day to spend in her garden. To be sure, it was but a tiny plot beside her door, filled with Gillyflowers and Mignonette and a few spicy herbs for flavorings, and yet, what must such a garden have meant to the one who tended it! It must sometimes have seemed the only link between her life in the old world and the new. The pungent fragrance of the flowers must have helped to keep fresh the memory of the garden where she had played as a child in some English village.

To this day we almost invariably associate the dooryard garden with the Colonial. The very words bring to mind a pic-

The English have a way of making delightful little gardens in places which we in America would neglect. They have developed dooryard planting to its highest degree, as exemplified by these old stone cottages beside a Cotswold street

ture of some little Cape Cod cottage with its trim green shutters and neat picket fence enclosing a tiny garden, or of a more stately dwelling on some Elm-shaded village street with flowers along the path leading to the door. Practically all of the gardens of Colonial times were enclosed by a fence which was in those days considered more of a necessity than an ornament. In the early days of the settlement of this country, cattle and animals of all kinds were allowed to roam at will and in order to protect one's home it was necessary to have a fence or a barrier of some kind. Many sections of the country required it by law.

But as time went on and the country became more thickly settled, laws were enacted which forbade people to allow their livestock to roam at large and there was no longer the actual need for a fence about

one's home or garden. And with the passing of the fence came the passing of the dooryard garden as it had existed in Colonial times. Also, as is so often the case, the pendulum swung to the other extreme and for years fences or barriers of any kind were quite out of fashion. One's lawn and dwelling lay open to the public view and people in the villages and small towns and suburbs seemed content to sit upon their front porches watching the world go by. The vast majority of houses built during the latter half of the last century were of this type.

Fortunately, however, a reaction has set in and the present tendency is to again give the home something in the way of privacy and seclusion. Indeed, these seem such priceless attributes that one wonders how our parents and grandparents could willingly have sacrificed them. With the return of this ideal we are beginning again to have properties bounded by walls or neat picket fences or by hedges of living green and we are again coming to realize the possibilities of the dooryard garden. So

(Continued on page 122)

Questions Readers Have Asked And Our Answers To Them

I HAVE a lovely sitting room, facing the south. The walls are Nile green. The carpet is taupe. Would it be in good taste to have plain yellow slip covers for the couch and two armchairs, as I dislike figured materials? Will you suggest other colours as well as tell me what you think of the yellow? I thought of using yellow or écreu marquisette for hangings and no glass curtains, as the room looks out upon a lovely garden.

J. F.

The charming view you describe should not be obscured, even with thin glass curtains. We suggest that, having omitted the latter entirely, you use instead Venetian blinds painted the Nile green of the walls and overcurtains to frame the natural picture beyond. Make these curtains of semi-glazed chintz, in a pale primrose yellow. Edge them with two pleated ruffles, one of yellow, the other green. The valance, of the same material, might be flat with scalloped edges finished with the ruffles. With yellow curtains, we suggest that your slip covers be made of rust or brown plain glazed chintz, piped in yellow, using cushions of chartreuse, Nile green and the yellow of the curtains.

THE living room of my French house is 18 x 25 feet, running north and south, with three exposures. The fireplace is in the south end with a window on either side with recessed radiators underneath. The walls are to be plaster finished, with a chair railing below which the wall is to be covered with canvas, painted the color of the woodwork. I have an Oriental rug, in shades of putty, henna and blue, to be used here. I also have a mahogany secretary desk and a mahogany bookcase. Would it be possible to make this room Empire or Directoire? What other furniture could you suggest; what lighting fixtures, color for the wall, and curtains?

In the dining room the walls are plaster with beams in the ceiling and a bay window with casements opening outward. I intend to get a walnut French provincial table, dresser and chairs. How shall I have the wood stained, what rug shall I get, and what colors and materials would be appropriate for the curtains and chair pads? Will pearl gray be suitable for the plaster wall? I intend to make use of a color scheme mentioned in your magazine for my kitchen—robin's egg blue and red. Exactly what shade of red would be the best?

T. R.

Provided the mahogany secretary and bookcase are in the Directoire style, it will be possible to furnish your living room in this manner. If you decide upon this period, we suggest that you paint the walls and woodwork old white, with the cornice and trim outlined in dull gold. The curtains may be of old gold satin lined with deep blue, or of white satin edged with wide gold fringe. They should be quite full, draped in ample, dignified folds, with valance looped in graceful festoons. Glass curtains should be of white silk gauze. Lighting fixtures of metal painted black and gold, and lamp bases in the style of Empire urns painted black and gold, or

henna and gold, with shades of white silk or parchment, would be appropriate with the style in question. The furniture should consist of mahogany and white painted wood pieces. Cover a sofa in antique gold satin. Two bergères painted white might be upholstered in plain blue silk or blue satin patterned with a small Empire rosette. An armchair covered in henna moiré and two mahogany side chairs of the period, upholstered in white leather complete the scheme.

In the dining room the walls may be pearl gray as you suggest, with woodwork and beams stained dark oak in the manner of French provincial interiors. With this color as a background, use red and white toile de Jouy, or linen patterned in blue on a red ground for curtains. A hooked rug in shades of gray, red and chartreuse will be an effective note and the chair pads may be of linen in a chartreuse shade, embroidered or cross-stitched in red and blue. With the robin's egg blue in the kitchen, use vermillion or tomato red.

I AM wavering between the English and the Norman-French styles for a nine-room house to be begun in the spring. The plot upon which the house is to be built has some outcroppings of rock and takes a slight slope toward the rear. The property is in a new development where English type residences predominate, although there are two Norman dwellings in the vicinity.

Have you any general facts as to either of these styles that will help me with my decision? Any assistance you can offer me will be greatly appreciated.

V. B. W.

While your letter does not specify just what English type you have reference to, I shall assume you mean the English cottage, since that is the character of English small houses most common to our suburbs.

In adaptability to suburban and semi-rural locations both the styles you speak of are excellent. They are both essentially informal styles and permit of great latitude in size and location of rooms. Probably the Norman, with its customary tower and more irregular outline is the most picturesque, but by the same token it is usually the most expensive to build.

The real clue to the proper decision seems to lie in the fact that your plot is sloping and has outcroppings of rock. It seems to me that the more irregular lines of the Norman style will prove best suited to such a site.

The fact that most of the houses about are English need not greatly influence a decision in favor of this style. The Norman has so much in common with the English that the noticeable difference will be more in the nature of a relief than otherwise. If the Norman is decided upon, however, it will be well to have the major portion of it in the same materials that have been used for the houses nearby.

IN spite of all the watering I do, many of my house plants are sickly and fail to blossom. The buds form but seem to dry up before they are large enough to open. I also notice that the

leaves of some of them turn yellow along the edges and finally drop off.

Can you tell me what the trouble is and how to remedy it?

P. T. B.

You may be keeping the pots too wet; it is quite possible to drown a plant as well as cause it to suffer from thirst. You might try watering less frequently. Generally, a thorough soaking every five or six days is enough.

It is more than likely, though, that the air in the house is too dry, as a result of the heating system being in operation during the cold weather. Plants need moisture in the air as well as in the soil; without enough of it they are sure to get into trouble. The real remedy is to install a good humidifier which will keep the air properly moist throughout the house. Some improvement should follow, though, if you keep a large pan of water on the radiator in the room where the plants are, and also spray their leaves with plain water twice a day. On damp, warm days, set them outdoors for several hours in some place where they cannot freeze.

CAN you give me the specific reasons why it is not considered wise to plant the outdoor garden just as soon as the frost is out of the ground in the spring? I should think that the earlier start you get the sooner you will have flowers and vegetables. But maybe this is just one of those beginner's theories; anyway, nobody seems to follow this idea here in the suburban community where I live.

D. R. P.

There are two main reasons for not sowing outdoor seeds (with very few exceptions, such as Sweet Peas and ordinary garden Peas) until the ground is quite well warmed up by the spring sun. Either one of them would be sufficient to discourage very early planting.

First, there is the physical condition of the soil. When the frost first comes out, and generally for several weeks thereafter, the soil is too soggy to permit getting it into the well cultivated, finely prepared state which is necessary to the proper germination and growth of young plants. You must wait until it has dried out considerably.

Secondly, there is the matter of temperature. Most seeds require rather warm conditions in order to germinate. In the early spring there is too much low temperature at night, often during the day as well, and whenever one of the frequent cold rains comes along. Under cold, damp conditions many seeds will rot instead of sprouting.

Obviously, there are marked advantages that come from extra-early spring sowing, provided the conditions necessary to germination are present. This is where the hotbed and coldframe come in, for the former especially can be depended upon to supply the necessary warmth and protection as early as the end of February. By properly utilizing either of these two devices you can usually count upon having strong plants ready to set out in their permanent places in the garden by the first part of May—a clear gain of at least a month over outdoor sowing.

House & Garden's Gardening Guide

The species suggested on these pages do not include all the desirable plant material available, but constitute a tried and tested nucleus with which to begin. With ordinary care they should succeed in their respective regions. In the notes, "R" signifies suitability for rock gardens, "D" means ability to succeed in dry soil and hot sun, and "S" indicates shade or partial shade. Lists compiled by F. F. Rockwell.

For The Northeastern States

NAME	HEIGHT	CHARACTER AND USE	NAME	HEIGHT	CHARACTER AND USE
DECIDUOUS TREES					
Oak (<i>Quercus</i>)	75'-100'	Very long lived; regal in appearance; mostly horizontal in general effect; vertical in some, such as Pin oak; excellent for shade and permanence; numerous varieties.	Plane (<i>Platanus</i>)	80'-100'	Rapid growing; irregular horizontal branches; satisfactory under wide range of conditions; excellent street tree and also for specimens and for shade; bark decorative in winter.
Elm (<i>Ulmus</i>)	100'-125'	Most graceful of all large trees; roots deeply; withstands wind and dry weather; English Elm holds foliage longer; Chinese Elm (<i>Parvifolia</i>) most rapid growing.	Tulip Tree (<i>Liriodendron</i>)	100'-125'	Dignified pyramidal tree of rapid growth and great size; fine foliage and beautiful flowers in June, somewhat resembling Tulips; splendid native tree excellent for specimen or shade or street, meriting wider use.
Beech (<i>Fagus</i>)	80'-100'	Spreading, open growth, fairly rapid; bark decorative in winter; Purple Beech fast grower and ideal for dense shade; this and Weeping Beech especially good as decorative specimens.	Ginkgo (<i>Salisburia</i>)	50'-75'	Irregular, often erratic growth; usually horizontal lines; extremely hardy; good for exposed positions, shade, specimen and street planting.
Maple (<i>Acer</i>)	75'-100'	Very fast growing but not very long-lived; excellent for shade and for spring and autumn coloring; prefer moist soil; hard on neighboring plants; Norway M. one of best.	Birch (<i>Betula</i>)	40'-80'	Comparatively short lived but easily grown and always worth planting because of contrast with other deciduous trees and evergreens; cut-leaf and weeping forms especially desirable as exotic specimens. D.
Willow (<i>Salix</i>)	40'-50'	Most airy graceful of all large trees; extremely rapid grower, decorative even when small; can be kept cut back to desired size; excellent for shade; especially effective when near water; desirable in every way.	Dogwood (<i>Cornus</i>)	15'-20'	Small tree; hardy and long-lived; excellent near residence to accentuate horizontal lines; beautiful white or pink flowers in spring, fine foliage in autumn; free from troubles; extremely satisfactory.
Poplar (<i>Populus</i>)	50'-100'	Most rapid growing family of large trees; both broad and spreading and upright forms, as in the Lombardy; comparatively short lived; excellent for temporary use. D.	Crab (<i>Malus</i>)	15'-25'	Flowering small trees; excellent for spring decorative effects within the garden, or showing over the garden wall; also as specimen for small lawn.
EVERGREENS					
Pine (<i>Pinus</i>)	40'-100'	Mostly naturalistic or picturesque in habit, especially with age; easily grown, long lived, stand exposed positions; many varieties thrive in light, sandy soil where most other evergreens would not do. D.	Redcedar (<i>Juniperus virginiana</i>)	5'-50'	Moderate sized evergreen, mostly of pyramidal form and fairly rapid growth; extremely hardy; the one indispensable evergreen for moderate sized places and adverse conditions; thrives even in sandy soils; may be clipped or pruned to desired size; fine for screens, hedges, specimens; Silver Redcedar (<i>Virginiana glauca</i>) for variety. D.
Hemlock (<i>Tsuga</i>)	40'-75'	Most graceful of the very hardy large evergreens; excellent for specimens, also for windbreaks and sheared for hedges; thrive in shade; prefer moist acid soil. S.	Juniper (<i>J. chinensis</i> and others)	3'-30'	Great variety in form and size; <i>Chinensis</i> varieties hardy to New York or Southern New England in sheltered localities; <i>C. columnaris</i> , narrow upright evergreen for Northern limits, rapid grower.
Spruce (<i>Picea</i>)	40'-75'	Graceful, pyramidal form, usually horizontal effect in branches; rough bark, pendant cones; excellent for specimens, groups and windbreaks; also sheared for hedges; generally more satisfactory than Firs, except under ideal conditions.	Yew (<i>Taxus</i>)	3'-30'	Darkest foliage and most beautiful in winter; upright and spreading forms; for foundation planting, groups, borders and hedges; Dwarf Japanese Yew especially good for latter; Hicks Yew a new hardy upright.
Fir (<i>Abies</i>)	40'-75'	Similar to Spruce, less graceful; smooth bark, upright cones; likely to become ragged with age, especially when planted singly.	Cryptomeria (<i>Cryptomeria</i>)	15'-30'	Deep green foliage, bronzing in winter, irregular in habit; tropical appearance; good in sheltered locations to New York; thrives near shore.
Douglas Fir (<i>Pseudotsuga douglasii</i>)	50'-100'	Vigorous, healthy, rapid grower; young growth especially beautiful in spring; more satisfactory than either Firs or Spruces under average conditions outside of the natural evergreen belt, remaining handsome to old age; specimens, windbreaks and hedges.	Cypress (<i>Chamacyparis</i>)	3'-25'	A large group including many dwarf and decorative foliage varieties of high coloring; for foundation plantings and groups in locations protected from drying winds.
Arborvitae (<i>Thuja</i>)	3'-30'	Numerous dwarf forms of various shapes; American (<i>Ocidentalis</i>) varieties hardiest; Oriental hardy to New York; good for foundation planting, evergreen groups, for color foliage effect, with taller varieties for screens and hedges.	Larch (<i>Larix</i>)	30'-60'	Deciduous evergreen of upright, hardy, rapid growth, European and Japanese species; especially beautiful in spring when new foliage growth appears; cones decorative; should be used wherever evergreen effect is desired in summer but sunlight in winter. D.
EVERGREEN SHRUBS					
Rhododendron	6'-15'	Largest and most impressive of all extremely hardy evergreen shrubs; covered with masses of gorgeous flowers in May and June; native species are the hardiest and most satisfactory for naturalistic planting.	Leucothoe	5'-6'	Long drooping sprays of creamy white blossoms; thick shiny foliage coloring beautifully in autumn; good in mixed border and for edging Rhododendrons or other evergreens; native, hardy; extremely satisfactory. S.
Laurel (<i>Kalmia latifolia</i>)	4'-10'	Native Mountain Laurel; picturesque growth; evergreen foliage beautiful the year round; excellent in shrubbery border, foundation planting or naturalizing; sun or shade; like Rhododendrons, requires acid, peaty soil. D. S.	Cotoneaster	2'-6'	Dense bushy growth mostly irregular, but can be kept pruned to desired size or form; upright growing and trailing species; trailing sort especially good for rock gardening; others for hedges, shrubbery border, foundation. D. R.
Azalea	1½'-8'	Most ornamental of evergreen flowering shrubs, also deciduous kinds; several good hardy species; selection of varieties will give bloom from April to July.	Oregon Hollygrape (<i>Mahonia aquifolium</i>)	3'-6'	Very heavy Holly-like foliage, shiny with sharp spines; ornamental fruit in fall and winter; excellent as a self shrub or in a foundation planting or evergreen group; protect from driving, drying winds. S.
Daphne (<i>D. genkium</i>)	1'-1½'	Low spreading bush; fragrant pink flowers in spring and intermittently through season; foreground foundation planting and rock garden. R.	Inkberry (<i>Ilex glabra</i>)	4'-6'	Charming tiny white flowers in spring followed by ink-black fruit; narrow, bright, shining leaves; graceful native shrub.
Andromeda (<i>Pieris floribunda</i>)	5'-6'	Handsome foliage, dark green, pointed, year round; white bell-like flowers in early spring; with other evergreens in border or foundation planting; good shrub under larger evergreens. S.	Box (<i>Buxus</i>)	1'-10'	Dense thick growth; dwarf and tall growing types; for edging beds, hedges; protection north of L. I.
DECIDUOUS SHRUBS					
Spiraea	4'-8'	MAY-SEPT. Small, graceful, some drooping or fountain-like varieties; Bridal wreath (<i>Prunifolia</i>) earliest to bloom; native Hardhack (<i>Tomentosa</i>) latest.	Barberry (<i>Berberis</i>)	3'-4'	Japanese Barberry; bushy, spreading, most satisfactory plant for moderate sized protective hedge of informal type; dwarf and creeping sorts for rock garden.
Forsythia	5'-10'	APRIL-MAY. Vigorous growing; extremely hardy; succeeds anywhere; both upright and drooping varieties; <i>spectabilis</i> makes finest display; shrubbery border, foundation planting; drooping forms, like <i>suspensa</i> , for banks.	Privet (<i>Ligustrum</i>)	4'-15'	MAY-JUNE. Several types, all excellent, for hedges; also beautiful tall flowering shrubs if allowed to develop; good for back of shrubbery border; may be trained. S.
Deutzia	3'-8'	MAY-JULY. Slender, rather graceful; excellent for foundation planting, borders and individual specimen; Pride of Rochester tallest and one of best.	Honeysuckle (<i>Lonicera</i>)	3'-8'	Continuous bloom. The bush Honeysuckles are among the most satisfactory of dense growing flowering shrubs; bloom intermittently under all conditions, even in poor soil; hedge and shrubbery border. S.
Weigela	6'-8'	JULY-SEPT. Succeeds anywhere; rose colored Azalea-like flowers; modern variety Eva Rathke freest blooming.	Azalea	2'-12'	APRIL-JUNE. The most brilliant of deciduous flowering shrubs; combines well with evergreens; acid soil. R.
Beautybush (<i>Kolkwitzia amabilis</i>)	6'-8'	MAY-JUNE. Newly introduced shrub somewhat similar to Weigela but more graceful and free flowering; deservedly becoming popular.	Lilac (<i>Syringa</i>)	6'-15'	MAY-JUNE. The old reliable hedge and house shrub; new hybrids show great range of colors; not so hardy but satisfactory garden plant.
Viburnum	2'-10'	MAY-JULY. A large group of widely differing types, all satisfactory; the best of large shrubs for individual specimen, also for the shrubbery border; <i>Carlesii</i> is fragrant; <i>tomentosum</i> especially good.	Flowering Almond (<i>Prunus</i>)	3'-15'	APRIL-MAY. Extremely beautiful spring flowering shrub; wild variety, easily grown, effective in closed garden.
Hydrangea	4'-10'	JULY-SEPT. Several types, all good; smaller sorts for foundation and border planting; larger for border or individual specimens like small trees; Otakia for seashore.	Tamarix	10'-15'	MAY-SEPT. Several species flowering from May to Sept. all easily grown; thrives in sandy soil and near shore; hardy to New York; tropical Fern-like foliage, excellent background for rock garden. D.
Butterflybush (<i>Buddleia</i>)	5'-8'	JULY-OCT. Vigorous, graceful, rapid grower; Lilac-like fragrant flowers; herbaceous in North.	Daphne (<i>D. mezereum</i>)	1'-2'	MARCH-APRIL. Dwarf shrub excellent for rock gardens and other intimate locations; blooms with the earliest small spring bulbs. R.

House and Garden's Gardening Guide

PERENNIALS (Northeast)

NAME	HEIGHT	SEASON	COLOR	CHARACTER AND USES
Alyssum	12"-15"	Apr.-June	Yellow	Solid masses of color; front of border or rock garden; remove old blooms. D. R.
Anemone, Jap.	24"-30"	Sept.-Nov.	Rose, pink, white	Most graceful late autumn flower; garden display; cutting; winter protection North.
Aquilegia (Columbine)	18"-36"	May-June	Various	Wonderful range of colors in new varieties; display; cutting; full sun. D.
Aster, Hardy	30"-48"	Sept.-Nov.	Blue, lavender	Thrives anywhere; many types; new varieties including pink and mauve; naturalizing; display; cutting. D.
Balloonflower (Platycodon)	12"-24"	July-Nov.	Blue, white	Border perennial; rock garden; sandy well-drained soil; sun or shade.
Campanula (Bellflower)	12"-36"	June-Oct.	Blue, white	Several types. Includes some of the best blue flowers. R.
Chrysanthemum	30"-48"	Sept.-Nov.	Various	Cutting and late display; rich soil and frequent transplanting.
Delphinium (Larkspur)	30"-72"	June-Sept.	Blue, various	Queen of early summer flowers; easy from seed; newer types for display.
Dianthus (Hardy Pink)	10"-18"	May-July	Pink, rose, white	Fragrant; free blooming; cutting; superior new types Alwoodi and Sweet Wivelsfield.
Digitalis (Foxglove)	36"-60"	July-Sept.	Pink, white	Unsurpassed for back of border or against walls or shrubbery; Giant Shirley strain best.
Gaillardia (Blanketflower)	18"-24"	June-Nov.	Yellow, bronze	Continuous flowering; resists drought; easy from seed; display and cutting; Portola Hybrids and other new varieties. D.
Geum	15"-18"	May-Sept.	Yellow, orange-red	Neat habit; suitable for large rock garden, border and cutting; easily grown; new sorts, Lady Stratheden and Opal.
Gypsophila (Baby's breath)	24"-30"	June-Sept.	White, rose	Feathery sprays; border and cutting; Bristol Fairy excellent new variety.
Heuchera	12"-18"	May-Sept.	Red, coral	Sun or shade; flowers on tall stems; plant compact and low; rock garden, border and cutting. R.
Hollyhock	48"-72"	July-Sept.	Various	Unsurpassed for display against wall or other background; single varieties most effective; full sun; self-sows; double named varieties such as Newport Pink; Emperor, new frilled type. D.
Iris	6"-36"	Apr.-July	Various	Select varieties for long season; dwarf species excellent for rock garden; Jap. and Siberian types prefer moist soil; most others dry. D. R.
Lupine	24"-40"	May-Sept.	Blue, pink, white	Greatly improved new hybrids, wide range of color; easy from seed; any soil; full sun; border and cutting. D.
Peony	24"-36"	May-June	Rose, pink, white	Immense blooms; many types, many fragrant; single and Japanese; graceful; deep rich soil; sun or slight shade.
Phlox	4"-36"	Apr.-Oct.	Various	Early dwarf and creeping types for front of border and rock garden; summer flowering, fine mass color displays, June to Sept.; rich soil. R.
Poppy	12"-30"	May-Oct.	Various	Brilliant colors; long season; flowers first season from early sown seed; Coonara strain in Iceland Poppies; new colors in Oriental type, such as Olympia. D.

ANNUALS (Northeast)

Ageratum	6"-18"	May-Oct.	Blue, white, rose	Front of border; compact, continuous blooming if old flowers are kept removed; potted plants for immediate show; Blue Ball new compact variety.
Alyssum	4"-10"	May-Oct.	White, lilac	Dainty, graceful for informal edging, interplanting Roses or other tall growing flowers; succession plantings; continuous bloom; self-sows. D. R.
Antirrhinum	8"-30"	May-Oct.	Various	Especially fine for cutting and display; tall and dwarf varieties; new colors; pinch back for stocky plants.
Begonia	6"-12"	June-Sept.	Various	Unsurpassed for continuous color display in hot, dry locations; start seed under glass, or buy plants. D.
Calendula	12"-15"	June-Nov.	Orange, yellow	Long continuous bloom; fairly moist rich soil; new varieties, Radio and Campfire.
Clarkia	24"-30"	June-Oct.	Rose, various	Low bushy shrubs somewhat similar to Flowering Almond; blooms in few weeks from seed; cutting.
Cosmos	48"-72"	July-Oct.	Pink, white	New early flowering types provide bloom in late July or August from April sown seed; start late tall sorts in heat.
Gaillardia (Blanketflower)	24"-30"	June-Oct.	Maroon, bronze	Brilliant flowers produced continuously; sow where to bloom; cutting and display; variety Indian Chief especially fine. D.
Gypsophila	12"-15"	June-Oct.	White, rose	Light, airy sprays of tiny flowers; indispensable for mixed bouquets; succession sowings.
Larkspur	24"-36"	June-Oct.	Blue, various	Back of annual border; indispensable for cutting; splendid new named varieties; Giant Imperial.
Lobelia	4"-10"	June-Nov.	Blue, white	Dainty edging plant; effective at water's edge; plants or sow where to bloom.
Marigold	12"-24"	July-Oct.	Yellow, various	Easily grown; thrives anywhere; display and cutting; dwarf and tall sorts. D.
Nasturtium	15"-72"	June-Oct.	Various	Dwarf types for borders and bedding, tall for fences, walls, banks; sow in rather poor soil.
Petunia	15"-24"	June-Oct.	Various	Dwarf types for bedding; "Balcony" and other sorts for window boxes, banks, trailing; new variety Burpee's Blue, rich, velvety, pure.
Phlox	6"-15"	June-Oct.	Various	Solid sheets of coloring or narrow edging; sow early where to bloom; succession sowing. D.
Poppy	8"-24"	May-Oct.	Various	Easy and quick from seed; sow where to bloom for masses of brilliant color; thin out for best results. D.
Portulaca	6"-10"	June-Sept.	Various	Unequaled for low mass of brilliant solid or mixed colors in extremely hot, dry sun. Sow thinly late May or June; thin out. D. R.
Scabiosa	24"-30"	June-Oct.	Various	Delicately colored graceful flowers continuous over long season; unexcelled for cutting; fragrant.
Verbena	8"-10"	July-Nov.	Various	Solid carpet of attractive foliage and continuous bloom; best ground cover for late fall garden; succession planting June or July. "Fireball," new dwarf compact type. R.
Zinnia	15"-30"	July-Oct.	Various	Wonderful new pastel shades and types; cutting and color display; second sowing for late fall garden. D.

VINES (Northeast)

NAME	HEIGHT	COLOR, CHARACTER AND USES	NAME	HEIGHT	COLOR, CHARACTER AND USES
Ivy (<i>Hedera</i>)	30'	The ideal clinging evergreen vine but not hardy much north of New York; dwarf forms for rock garden. S.	Wisteria	50'	Twining. Extremely vigorous; most picturesque and Japanese of hardy vines; fragrant; verandas, gates, pergolas, house sides.
Ampelopsis	20'	Climbing and twining. Hardy to extreme North; a good substitute for Ivy; not evergreen.	Bittersweet (<i>Celastrus scandens</i>)	40'	Twining. Splendid native vine, easily grown, especially fine for winter decorations; good foliage; naturalistic effect. S.
Winter-creeper (<i>Euonymus radicans</i>)	15'	Climbing. Substitute for English Ivy in the North; extremely hardy; ornamental berries in fall.	Hop Vine (<i>Humulus</i>)	25'-30'	Twining. Extremely rapid grower; excellent for shade.
Honeysuckle (<i>Lonicera</i>)	30'	Twining. Fragrant blossoms, summer to frost; fragrant; fine veranda vine; good ground cover; evergreen tendency towards South. D. S.	Kudzu-vine (<i>Pueraria</i>)	50'	Twining. Fastest growing of all; large leaves; dense habit.
Clematis	15'-20'	Twining. Delicate graceful climber; large flowered sorts not hardy in extreme North; trellises and summer houses, veranda; <i>Montana undulata</i> hardy, large pink flowers.	Dutchman's Pipe Vine (<i>Aristolochia</i>)	30'	Twining. Very broad heart-shaped leaves of light green; peculiar pipe shaped flowers; dense shade or close screen for summer house, pergola or porch.
			Trumpet-creeper (<i>Bignonia</i>)	40'	Climbing and twining. Rampant grower; conspicuous orange-red flowers in late summer; <i>Grandiflora</i> best.

DECIDUOUS TREES FOR THE MIDDLE WEST

Oak (<i>Quercus</i>)	75'-100'	Hardy, long lived; Scarlet, Red and Mossy Cup varieties especially good for North.	Linden (<i>Tilia</i>)	60'-80'	Fragrant flowers attractive to bees in midsummer; rapid growers, dense tent-like shade; very satisfactory; American species hardiest.
Elm (<i>Ulmus</i>)	100'-125'	Shade, street and large lawn; native (<i>U. Americana</i>) hardiest; Chinese (<i>parrifolia</i>) fastest growing.	Locust (<i>Robinia</i>)	40'-60'	Rapid grower, moderately long lived; resists heat and drought, stands pruning; fragrant flowers. D.
Maple (<i>Acer</i>)	75'-100'	Shade and street; moderately long lived; Norway, Red, Sugar and Tartarian best for very cold sections.	American Hornbeam (<i>Ostrya virginiana</i>)	30'-50'	Extremely hardy native tree; slow growing, small tree; foliage persists into winter; good tall hedge; stands pruning. D.
Poplar (<i>Populus</i>)	50'-100'	Rapid growing, moderately long lived; Balm of Gilead extremely fast growing, hardy, sturdy, broad, pyramidal; Bolleana and Lombardy upright, columnar. D.	Wild Crab (<i>Malus</i>)	20'-25'	Extremely hardy; native of the western plains; splendid hardy ornamental fruit tree.
Willow (<i>Salix</i>)	40'-50'	Many varieties, very hardy; extremely satisfactory; Wisconsin Weeping hardiest of this type.	Hawthorn (<i>Crataegus</i>)	10'-30'	Several varieties; extremely hardy; heavy soil and moderate lime; summer mulching beneficial in light soils.
Horse-Chestnut (<i>Aesculus</i>)	50'-80'	The Buckeye of the Midwest; especially good for suburb; fast growing; dense shade.			

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EVERGREENS (Middle West)

NAME	HEIGHT	CHARACTER AND USES	NAME	HEIGHT	CHARACTER AND USES
Douglas Fir	50'-100'	Quick growing, broad, pyramidal, blue-green foliage.	Juniper: (other forms)	3'-30'	Chinese and other types not so hardy as the preceding; protected locations generally, excepting in northern states foundation plantings and groups.
Pine (<i>Pinus</i>)	40'-100'	Native White Pine (<i>P. strobus</i>) especially fine, Scotch more resistant to winds and exposure, Dwarf Mugho for foundation planting, D.	Arboretum (<i>Thuja</i>)	3'-30'	Native American species and Siberian are hardest; specimens, groups and hedges; stand trimming.
Spruce (<i>Picea</i>)	40'-75'	Most varieties do well, Black Hills is hardest and best for dry soils, close, dense growth.	Cypress (<i>Retinospora</i> ; <i>chamaecyparis</i>)	3'-25'	Dwarf, highly colored; not reliably hardy in northern sections, but satisfactory elsewhere if protected from winter winds, S.
Fir (<i>Abies</i>)	40'-75'	Native Balsam, symmetrical and graceful; likes moist soil and cool summers.	Yew (<i>Taxus</i>)	3'-30'	Canadian or native Yew perfectly hardy; spreading evergreen; fine dark foliage, Japanese Yew excellent for hedges and foundation planting.
Hemlock (<i>Tsuga</i>)	40'-75'	Graceful evergreen for specimen and shady location.	Cryptomeria	15'-30'	Distinct evergreen of unusual appearance; protected situations not too far north.
Redcedar (<i>Juniperus virginiana</i>)	25'-50'	Most useful evergreen for moderate sized place; use <i>Glaucia</i> for color variation; low forms for foundation planting, D.			
Colorado Juniper (<i>Juniperus scopulorum</i>)	30'-40'	Native western species; very hardy; fine for variety; distinct coloring, D.			

EVERGREEN SHRUBS (Middle West)

<i>Cotoneaster horizontalis</i> (Rock Cotoneaster)	2'-3'	Several varieties including <i>Horizontalis</i> are evergreen in mild sections, deciduous farther North, D.	<i>Daphne cneorum</i> (Rose Daphne)	1'-1½'	Fragrant flowers intermittently through season; avoid extremes both dry and wet; winter protection in severe climates, R.
<i>Berberis buxifolia</i>	1'-3'	Very hardy evergreen; good small hedge; give protection in North, S.	<i>Leucothoe catesbeii</i> (Drooping Leucothoe)	5'-6'	Beautiful, graceful, white-flowered native shrub, excellent with preceding, S.
Oregon Hollygrape (<i>Mahonia aquifolium</i>)	3'-6'	Stands considerable cold but must be protected from dry winds; good undershrub, and for foundation, S.	Andromeda (<i>Pieris floribunda</i>)	5'-6'	Good under evergreens or in mixed border; hardy to cold where other conditions are suitable, S.
Azalea <i>amara</i>		Japanese Evergreen Azalea; hardy fairly far North; thrives in shade, S.	Rhododendron	5'-15'	Native species hardest; protect from winds, S.
Mountain Laurel (<i>Kalmia latifolia</i>)	4'-10'	Very hardy native shrub; acid soil; with evergreens or mixed foundation planting, S.	True-dwarf Box (<i>Buxus sempervirens</i> <i>sufruticosa</i>)	3'-5'	Tub or porch for northern sections; for out-of-doors obtain true <i>sempervirens</i> from northern nursery, S.

DECIDUOUS SHRUBS (Middle West)

Common Lilac	12'-15'	MAY-JUNE. Long lived; tall hedges or screens and individual clumps.	Snowberry (<i>Symphoricarpos</i>)	2'-5'	JUNE-JULY. Bushy shrub, rose-pink flowers in midsummer followed; white waxlike berries; Coral Berry (<i>S. vulgaris</i>) more compact; thrives anywhere; naturalizing, banks and mixed border.
Sweet Mockorange (<i>Philadelphus</i>)	8'-12'	JUNE-JULY. Many splendid new varieties such as <i>Virginal</i> ; shrubby border; individual specimens.	Indigo-bush (<i>Amorpha fruticosa</i>)	6'-10'	JUNE. Spreading habit; feathery foliage; violet-purple flowers; massing or mixed border.
Forsythia	5'-10'	APRIL-MAY. Unexcelled for early spring effects; various types for differing conditions.	Viburnum	2'-12'	Many varieties and types, all good; easily grown.
Hardhack (<i>Spiraea tomentosa</i>)	3'-4'	JULY-SEPT. Beautiful native shrub, hardy even to northern Canada; naturalizing; front of mixed border; near water.	Prunus (Flowering Cherry and Plum)	3'-15'	APRIL-MAY. Many of the flowering Crabs are extremely hardy; effective in garden enclosure.
Hydrangea	6'-15'	Several types, valuable for their large-panicked flowers in summer.	Privet	4'-15'	MAY-JUNE. In northern sections use only hardest varieties—Ibota, Amur and Regel; the latter is spreading and dense growing, D. S.
Weigela (<i>Diervilla</i>)	6'-8'	MAY-JULY. Strong growing; vigorous; back of lower shrubs, or against walls or buildings with flowers in front.	<i>Cotoneaster acutifolia</i>	4'-6'	MAY-JUNE. The Pekin Cotoneaster has foliage somewhat resembling California Privet; individual specimens for hedges; harder than Privet; upright, shrubby; stands shade.
Siberian Pea-tree (<i>Caragana arborescens</i>)	15'-20'	MAY-JUNE. Extremely hardy; excellent for hedge, or as specimen.	Rose species	3'-6'	MAY-JUNE. Hardy species especially satisfactory for the central Northwest; a few are the Prairie Rose (<i>Setigera</i>) in sandy soils, Rugosa, Rugosa Hybrids and <i>multiflora</i> . Also most shrubs recommended for Northeast.
Golden-Currant (<i>Ribes aureum</i>)	4'-6'	MAY. Large, yellow, fragrant flowers in spring; edible black berries; Dwarf Mountain Currant (<i>alpinum</i>), excellent low hedge, S.			
Rose-acacia (<i>Robinia hispida</i>)	1'-3'	JUNE-JULY. Racemes of beautiful Pea-like flowers in early summer; extremely vigorous, any soil; in masses; naturalizing.			

PERENNIALS (Middle West)

NAME	HEIGHT	SEASON	COLOR	CHARACTER AND USES
Aconite (Monkshood)	36"-72"	July-Sept.	Blue-white	Upright grower for middle or back of border; blue flowers until frost.
Artemisia	36"-48"	Aug.-Sept.	Creamy, white	New variety Silver King especially valuable for silvery foliage effect in combination with other flowers.
Astilbe (<i>Spiraea</i>)	24"-48"	June-July	Pink, white	Feathery plumes during midsummer; back of border or for landscape effects.
Bocconia cordata (Plume Poppy)	6'-8'	July-Aug.	Cream, white	Vigorous, tall, imposing; excellent for screen or naturalizing; spreads underground, S.
Campanula	24"-60"	June-Sept.	Blue, purple	Both dwarf and tall forms, always dependable, R.
Chrysanthemum	30"-48"	Sept.-Nov.	Various	Glory of the late garden for display and cutting; use early varieties in northern sections.
Delphinium	30"-72"	June-Oct.	Blue, pink	Back of border and for cutting; winter covering of cinders over crown.
Dianthus	10"-18"	May-July	Pink, rose, white	Fragrant, neat, free-blooming; fine for cutting; Alwoodi and Sweet Wivelsfield superior types.
Digitalis (Foxglove)	36"-60"	June-Aug.	Pink, white	Unsurpassed for back of border or grouped against walls or shrubbery; new Giant Shirley strain especially good.
Gaillardia (Blanketflower)	18"-24"	June-Nov.	Yellow, bronze	Indispensable for display and cutting; try named varieties, D.
Gypsophila (Babysbreath)	24"-30"	June-Sept.	White, rose	Feathery sprays of tiny flowers for border and cutting; Bristol Fairy excellent new variety.
Heuchera	12"-18"	June-Aug.	Pink, red	Makes compact clumps of evergreen foliage; front of border or large rock garden, R.
Hollyhock	48"-72"	July-Sept.	Various	Against wall or other wind protected location; easy from seed.
Iris	6"-36"	April-July	Various	Japanese and Siberian types prefer moist soil; most others dry, D. R.
Peony	24"-36"	May-June	Rose, pink, white	Unsurpassed for the North Central West; most modern varieties fragrant; try singles and Japanese.
Phlox	4"-36"	April-Sept.	Various	Early creeping and low varieties for front of mixed border and rock garden; summer flowering for masses of color.
Rudbeckia	3'-8'	July-Sept.	Yellow, orange	Golden Glow (<i>R. laciniata</i>) thrives anywhere in any soil; naturalizing; against outbuildings, S.
Veronica	12"-60"	May-Sept.	Blue, violet	Dependable and satisfactory blueflowers; groups in mixed border.
Sedum (Stonecrop)	6"-18"	July-Sept.	Yellow, rose	Stonewalls in variety for front of mixed border and rock gardening; successful where many Alpines will not do, D. R. Also practically all other hardy perennials.

ANNUALS (Middle West)

Ageratum	6"-18"	May-Oct.	Blue, white	Low, spreading border; Blue-ball compact dwarf variety.
Alyssum	4"-10"	May-Oct.	White, lilac	Splendid for interplanting among other flowers; to follow bulbs; late sowing for autumn garden, D. R.
Antirrhinum (Snapdragon)	8"-30"	May-Oct.	Various	Back of mixed border; bloom long after frost in protected spot; cutting.
Calendula	12"-15"	June-Nov.	Orange, yellow	Good for cutting throughout season; mixed border.
Coreopsis	12"-36"	June-Sept.	Yellow, garnet	Bright colored flowers on long stems; cutting; sow where to bloom; thin out; full sun, D.

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ANNUALS (Middle West)

NAME	HEIGHT	SEASON	COLOR	CHARACTER AND USES
Candytuft (Iberis)	12"-18"	June-Sept.	Various	Greatly improved new Giant Hyacinth flowered strain; pleasing colors; fragrant; cutting; Tom Thumb makes good low edging.
Cosmos	48"-72"	July-Oct.	Pink, white	New early flowering type makes it possible to grow this much farther north; wind protected spot; cutting; garden display; start late sorts indoors.
Datura (Angels Trumpet)	24"-36"	July-Sept.	Creamy white	Vigorous growing bushy annual; creamy white trumpet-like flowers; grows anywhere.
Gypsophila elegans (Babysbreath)	12"-15"	June-Sept.	White, rose	Graceful, delicate sprays of tiny flowers; several sowings for continuous supply.
Larkspur (Delphinium)	12"-36"	June-Oct.	Blue, various	Unsurpassed for display in the border and cutting; new named varieties.
Lupine	20"-28"	May-June	Blue, rose, white	Sprays of Pea-like flowers on vigorous plants with handsome foliage; plant individually in small pots or where to grow; bloom in eight weeks; stands partial shade; well limed soil. D.
Marigold (Tagetes)	12"-30"	July-Oct.	Yellow, orange	Always satisfactory; dwarf for edging and taller for mixed border and cutting; second sowing for late fall.
Nasturtium	15"-72"	June-Oct.	Various	Dwarf and vine-like types; full sun and rather poor soil.
Petunia	15"-24"	June-Oct.	Various	Continuous flowering until hard freezing; Balcony type for porch boxes and baskets; Bedding for masses of color.
Phlox	6"-15"	June-Oct.	Various	Good everywhere for low masses of brilliant color; sow as soon as frost is well out and again in May; flowers within a few weeks from seed. D.
Portulaca	6"-10"	June-Sept.	Various	Tender but quick growing in hot weather; blooms continuously in hot, dry locations. D. R.
Poppy	8"-24"	May-Oct.	Various	Cutting and garden display of brilliant colors; sow where to bloom; thin out. D.
Ricinus	36"-72"	Foliage	Green, bronze red	Tender but rapid growing, giving tropical effect; start in pots for early use, or outdoors at Bean planting time.
Verbena	8"-10"	July-Nov.	Various	Low, spreading; good ground cover; often blooms until snow. R.
Zinnia	12"-36"	July-Oct.	Yellow, various	New types and colors; thrives anywhere; avoid too much nitrogenous fertilizer; full sun.

VINES (Middle West)

NAME	HEIGHT	COLOR, CHARACTER AND USES	NAME	HEIGHT	COLOR, CHARACTER AND USES
Boston Ivy (Ampelopsis veitchii)	40'	Clings to brick and stone like English Ivy; <i>A. engelmannii</i> is hardiest, withstanding Minnesota winters.	Akebia quinata	30'	Twining. Fast growing; splendid foliage; free from insects and disease; fragrant flowers.
Euonymus radicans (Winter-creeper)	15'	Clinging. Hardest evergreen vine, best substitute for English Ivy for winter effect. S.	Silver Lace Vine (Polygonum auberti)	25'	Twining. Shiny foliage; free from insects or disease; foamy sprays of silver-white flowers, for long season in late summer.
Honeysuckle (Lonicera)	30'	Twining. Not evergreen but leaves persist until late autumn; excellent ground cover also. S.	Chinese Matrimony Vine (Lycium chinense)	30'	Twining and trailing. Any soil, grows vigorously; purple flowers, scarlet berries; good ground and bank cover.
Clematis	20'	Twining. Native species, <i>virginiana</i> and <i>montana</i> , also the Japanese (<i>paniculata</i>), much harder than large-flowered types.	Bittersweet (Celastrus scandens)	40'	Twining. Small sprays of cream-white flowers in July; orange and crimson berries, for winter house decoration; easily grown; good for naturalizing.
Wisteria	50'	Twining. <i>Chinensis</i> hardiest; spring display over pergolas, dead trees or other substantial supports.			Also most vines recommended for Northeast.
Trumpet-creeper (Bignonia)	40'	Clinging and twining. Will cling to wood or other fairly rough surfaces; if killed back in severe winters quickly grows again; conspicuous orange flowers in late summer. D.			

DECIDUOUS TREES FOR THE NORTHWEST

Oak (<i>Quercus</i>)	80'-100'	Red, Scarlet and Mossycup for general use; Pin Oak for vertical effect.	Black Locust (<i>Robinia pseudoacacia</i>)	60'-80'	Fragrant flowers in May or June. Heat and drought resisting; stands exposure; poor soil; rather short-lived. D.
Oregon Maple (<i>Acer macrophyllum</i>)	50'-60'	Broad headed, broad leaves; street or shade; other varieties.	Mountain Ash (European) (<i>Sorbus aucuparia</i>)	30'-40'	Symmetrical, upright growing; graceful, Fern-like foliage, scarlet berries.
California Black Walnut (<i>Juglans californica</i>)	50'-60'	Near coast except in far North; shade and decoration; moist soil.	Hawthorne (<i>Crataegus</i>)	20'-30'	Thrives particularly well here; specimen, hedges, or street parking.
Sweet Gum (<i>Liquidambar</i>)	75'-100'	Splendid shade or ornamental; fine autumn coloring; moist soil.	Silk Tree (<i>Albizia julibrissin</i>)	30'-40'	Good substitute for Acacia or Mimosa; extra fine garden tree; moderate shade.
Birch (<i>Betula</i>)	60'-100'	Rapid growing, great size, not long-lived; plant Yellow B. (<i>lutea</i>) for permanence.	Flowering Cherry, Plum and Crab (<i>Prunus</i> and <i>Malus</i> in variety)	20'-30'	Splendid garden subject in this region.
Pacific Dogwood (<i>Cornus nuttallii</i>)	40'-50'	Native; grows to full tree size.			Also all trees from preceding sections.
Ginkgo (<i>Maidenhair</i>)	50'-75'	Irregular spreading habit; Maidenhairfern-like foliage held late in season.			

EVERGREENS (Northwest)

Douglas Fir (<i>Pseudotsuga douglasii</i>)	75'-150'	Rapid growing, beautiful; symmetrical but graceful.	Yew (<i>Taxus</i>)	3'-40'	Wide variety; English and Irish especially good; latter of slow growth and extra fine for garden use. S.
Fir (<i>Abies</i>)	75'-100'	Rapid growing; more beautiful than in East; groups, particularly in exposed positions.	Juniper, Chinese (<i>Juniperus chinensis</i>)	3'-40'	Great range of form, creeping to columnar.
Redwood (<i>Sequoia</i>)	100'-200'	This and California Big Tree (<i>Sequoia gigantea</i>) good for large grounds even where conditions are not ideal, north of Northern Cal.	Arboretum, Oriental (<i>Thuja orientalis</i>)	3'-40'	Thrives well; wide variety; foundation and garden planting; retains color better than in East.
Deodar Cedar (<i>Cedrus deodara</i>)	60'-100'	Decorative and satisfactory for all Pacific coast; well drained location; Atlas Cedar somewhat hardier.	English Holly (<i>Ilex aquifolium</i>)	30'-40'	Succeeds throughout section, especially near coast; distinct type; garden tree; protective hedge. S.
Cypress (<i>Cupressus</i>)	50'-75'	The true Cypresses, including the columnar Italian Cypress, hardy near coast; good drainage, sheltered position.	Madrone (<i>Arbutus menziesii</i>)	20'-25'	Native small tree; waxy white flowers, bell shaped, in drooping clusters, orange red berries; conspicuous smooth bark; good drainage
Cryptomeria (in variety)	30'-50'	Harder than preceding; better winter color than in East; fine for garden use.			Also conifers recommended for preceding regions.
Japanese Umbrella Pine (<i>Scydopitys verticillata</i>)	50'-75'	Remarkable Japanese tree; slow growing; background for rock garden.			

EVERGREEN SHRUBS (Northwest)

Abelia grandiflora (Glossy Abelia)	5'-6'	Low, spreading, graceful, flowering early summer to frost; small, Arbutus-like blossoms; evergreen tendency. S.	Oregon Hollygrape (<i>Mahonia aquifolium</i>)	3'-6'	Vigorous growing. Holly-like foliage; yellow flowers, bluish-black berries; protect from driving winds. S.
Acuba japonica (Gold-dust Plant)	5'-8'	Thick, spreading, large decorative leaves; foundation planting, evergreen groups, specimens; wind protected location. S.	Cotoneaster	2'-6'	Dense, spreading or trailing; beautiful all year; wide variety; foundation planting and rock gardening. R.
Camellia japonica	10'-20'	Hardy to Tacoma if protected from driving winds; beautiful evergreen foliage, abundant rose pink or white flowers in early spring.	Erica (Heather)	1/2'-1'	Neat, dense mat, small leaves, or hairy foliage and pink, red or white flowers; different varieties bloom Feb. to late summer; rock gardens or bordering shrubs or drive; sandy soil; full sun. D. R.
Mexican Orange (<i>Choisya ternata dryas</i>)	4'-7'	Orange-like blossoms, spring and late summer; shiny evergreen foliage; good for hedge or against wall.	Laurel (<i>Laurus</i> , in variety)	6'-15'	Several species, including English and Portuguese Laurel, and <i>L. tinus</i> (flowers January or February); hedges, backgrounds, groups; protection from winds; semi-shade. Also those for the Northeast and most for Southeast.
Evergreen Barberry (<i>Berberis</i> , in variety)	1'-3'	All but the tenderest do in moderately protected locations; rival the Cotoneasters for rock garden, foundation plantings, mixed shrubbery groups. R.			

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DECIDUOUS SHRUBS (Northwest)

NAME	HEIGHT	CHARACTER AND USE	NAME	HEIGHT	CHARACTER AND USE
<i>Azalea mollis</i> (Chinese Azalea & others)	3'-10'	APRIL-JUNE. Gorgeous in spring; several half hardy sorts also do well; peaty, sandy soil; will stand some shade.	Cotoneaster, in variety	1'-6'	Wide variety; foundation, mixed group, hedges, rock garden; berries. R.
Broom (<i>Genista</i> , <i>Cytissus</i>)	3'-10'	APRIL-MAY. Including native <i>occidentalis</i> ; Scotch Broom (<i>C. scoparius</i>) widely naturalised; <i>C. praecox</i> is earliest flowering; hedges and shrub borders; dwarfs for rock gardens. D.	Lilac (<i>Syringa</i>)	6'-15'	MAY-JUNE. Old favorite, also modern hybrids; background, shrubbery border, hedges.
Mountain Lilac (<i>Ceanothus</i>)	6'-10'	APRIL-MAY. Native of Northern Cal., many hybrids; blue or lavender Lilac-like flowers; bushy, spreading, moderate growth; beautiful, easily grown. D.	Tamarix, in variety	10'-15'	APRIL-SEPT. A selection of varieties gives bloom from spring to late summer; slender, willowy growth.
<i>Daphne mezereum</i> (February Daphne)	3'-4'	MARCH-APRIL. Charming, fragrant little shrub; rock garden.	Buddleia (Summer Lilac)	5'-8'	JUNE-OCT. Excellent to follow the spring blooming Lilacs; any soil; prune vigorously.
Rose Acacia (<i>Robinia hispida</i>)	2'-3'	MAY-JUNE. Attractive foliage, abundant Pea-like blossoms May or June; hedges or shrubbery border.	Deutzia	3'-8'	APRIL-JULY. Range of varieties for many purposes; foundation, shrubbery border, low hedges.
Flowering Currant (<i>Ribes</i>)	2'-6'	APRIL-MAY. Hardy, easily grown; yellow flowers very early; shrubbery border; sub-shrub or against evergreens. S.	Honeysuckle (<i>Lonicera</i>)	3'-8'	Fragrant flowers very early; shrubbery border; backgrounds.
			Spiraea	4'-8'	APRIL-AUG. Many varieties, succession of bloom; slender and drooping sorts especially effective on banks or slopes.
			Rose Species	2'-6'	MAY-JUNE. Many sorts, including natives and naturalised Sweet Brier or Eglantine (<i>Rubiginosa</i>).

VINES (Northwest)

English Ivy (<i>Hedera helix</i> , varieties)	40'-50'	Climbing. Several varieties; ideal wall covering; beautiful year round. S.	Jasmine (<i>Jasminum</i>)	8'-12'	Twining. Hardier varieties; sunny sheltered position; <i>nudiflorum</i> begins blooming first mild spell; White Jasmine (<i>officinale</i>), with Fern-like dark green foliage and fragrant flowers, blooms throughout season; good soil and prune each spring.
<i>Euonymus radicans</i>	10'-12'	Climbing. All varieties including <i>argentea</i> , with white veined foliage pinkish tinged in winter. S.	Clematis, Large-flowered (<i>C. jackmani</i> and others)	8'-15'	Twining. Hardy sorts and large-flowered more tender varieties; for latter, select wind sheltered position.
<i>Actinidia chinensis</i>	20'-25'	Twining. Shrubby growth; broad heart-shaped leaves, dense shade; ideal for arbors; yellow flowers; Gooseberry-like fruit; northern or eastern exposure. S.	Hyacinth Bean (<i>Dolichos lablab</i>)	10'-12'	Twining. Very rapid growing; continuous flowering; shade for veranda. D.
Stauntonia	30'-40'	Twining. Suggests Honeysuckle, thriving best in shade; five-lobed leaves, unique winter coloring.	<i>Vinca minor</i>	Trailing	Trailing ground cover; small early blue flowers; any soil; walls, banks. S.
<i>Bignonia chinensis</i>	25'-30'	Climbing and twining. <i>Grandiflora</i> and other deciduous varieties, also evergreen sorts; covering for tree trunks, fences, etc.			Also vines recommended for Northeast.
<i>Lonicera belgica</i> (Belgian Honeysuckle)	15'-20'	Twining. Particularly fragrant; walls, fences, banks. S.			

PERENNIALS (Northwest)

NAME	HEIGHT	SEASON	COLOR	CHARACTER AND USES
Aubretia (Rainbow Rockcress)	5"-7"	April-June	Blue, lavender	The "rainbow" flower of northwestern rock gardens; many improved varieties. R.
<i>Anemone japonica</i>	24"-30"	Sept.-Nov.	Rose, pink, white	Charmingly graceful; mixed border; cutting.
Aster, hardy	6"-48"	May-Nov.	Blue, lavender	Many dwarfs for rock garden; many new named varieties of tall growing late hardy Asters. R.
Campanula (Bellflower)	3"-36"	May-Oct.	Blue, pink, white	Wide range; many natives; border and rock garden. R.
Chrysanthemum	30"-48"	Sept.-Nov.	Various	Cool growing season and late fall provide ideal outdoor conditions for 'mums.
Erigeron	4"-18"	May-Aug.	Lavender, pink	Daisy-like flowers of azure blue with yellow centers; summer cutting; rock garden. R.
Erodium (Heron'sbill)	12"-18"	June-Aug.	Rosy purple	Rosy purple 2" flowers, long stems, produced continuously; display; cutting. D.
Erythronium (Troutlily)	8"-10"	April-May	Yellow, pink	Native woodland plants; prefer light, moist, well drained soil; shaded corners; border or rock garden. S.
Gentian (<i>Gentiana</i>)	6"-18"	April-Nov.	Blue shades	Many natives as well as European sorts; unsurpassed blue for rock garden; peaty soil, thorough under-drainage. R.
Helenium	4'-6'	June-Oct.	Yellow, orange	Glorious for back of border or in front of evergreens; cutting.
Iris	6"-36"	April-July	Various	Natives are mostly woodland plants, semi-shade; dwarfs for rock garden; tall garden sorts thrive well.
Lewisia	3"-10"	May-Oct.	Pink, rose, white	Native doing best in sharp sandy soil, full sun; evergreen foliage, dainty flowers.
Lupine, Washington (<i>Lupinus polyphyllus</i>)	12"-24"	May-Sept.	Blue, pink, yellow	Wide range of colors; easily grown; any soil; long season; cutting, border display.
Pentstemon	4"-24"	May-Oct.	Blue, purple, scarlet	Many native varieties especially adapted for rock gardens; gritty soil; good drainage; full sun; several resemble tiny evergreen shrubs.
Phlox	4"-36"	April-Sept.	Various	The familiar varieties of the East and also several natives. R.
Polemonium	6"-24"	June-Sept.	Blue, pink	Native with Fern-like foliage, large flowers; border; cutting.
Primula	4"-24"	April-July	Yellow, orange, lilac	Great range of sorts; long season; hardy border; rock garden.
Saxifraga	3"-12"	April-June	Various	Widely varied types; gritty soil; good drainage. R.
Sempervivum	6"-10"	July-Sept.	Pink, rose red	Companion to the Saxifragas; thrives in poor sandy soil. D. R.
Wallflower	12"-18"	Feb.-June	Orange, various	Early spring or even winter blooming perennials; mixed border or against evergreen background. Also perennials recommended for preceding regions.

ANNUALS (Northwest)

Antirrhinum (Snapdragon)	8"-30"	May-Oct.	Various	Dwarf and tall sorts for front, middle and back of border; unsurpassed for cutting.
Aster	18"-30"	July-Sept.	Lavender, pink, white	Masses of color in the late garden or for cutting.
Balsam (<i>Impatiens</i>)	18"-30"	June-Sept.	Pink, white, various	New improved types of this old favorite; avoid too rich soil.
Calliopsis	18"-36"	June-Sept.	Yellow shades	Very long season; ideal for yellow in the mixed border. D.
Dianthus (Annual Pinks)	12"-15"	July-Sept.	Pink, salmon	The Garden Pinks, liking cool weather thrive, wonderfully.
Eschscholtzia (California Poppy)	10"-12"	June-Aug.	Golden yellow, various	Masses of golden yellow; easy from seed sown where to bloom; new varieties. D.
Godetia	12"-15"	June-Sept.	Rose, crimson, white	Thrives perfectly; satiny cupshaped flowers.
Larkspur (<i>Delphinium</i>)	18"-24"	June-Oct.	Blue, various	More graceful for cutting than perennial type; display in middle of mixed border; self-sows.
Lavatera (Annual Mallow)	36"-48"	June-Sept.	Pink, rose	Hollyhock-like foliage and flowers; good against evergreens or wall; Loveliness particularly fine.
Petunia	15"-24"	May-Oct.	Pink, various	Unsurpassed for ground cover, walls, banks, window boxes; "Portland" varieties.
Poppy	8"-24"	May-Oct.	Various	Sow where to bloom; special planting for late bloom. D. R.
Sand Verbena (<i>Abronia umbellata</i>)	4"-6"	May-July	Lilac, pink	Low, trailing vine; sandy soil, near seaside; self-sown. D.
Salpiglossis	24"-30"	June-Sept.	Various	Velvety Morning-glory-like flowers; wide color range; border or cutting; easily grown.
Sweet Pea	36"-72"	June-Sept.	Pink, various	Blooms to perfection over long period; sow in autumn or very early spring.

(Lists continue on page 134)

Common Insects Injurious To Trees And Shrubs

This chart is the first of a series of three on the control of garden insects and diseases. The others will appear later in the year.

How To Use The Chart

UNDER list of "Injuries Noticed" find capital letter corresponding to observed injury or effect. Locate name of tree or shrub in "Plant" column. Opposite the name of tree or shrub, you will find capital letters (denoting injuries) immediately followed by arabic numerals. These arabic numbers (5) refer to the "Insect" columns, indicating which insect or insects are probably causing the trouble. Opposite the names of the insects are Roman numerals (IV) which indicate the remedies, sprays, etc. that are suggested as explained in the column headed "Suggested Treatment."

The information being in chart form, a part of the symptoms or suggested remedies may not always be applicable to certain insect infestations. Suggestions under "I" cover a broad field and should be applied as the case indicates.

This chart and the ones to follow were compiled by Andrew Wilson.

Injuries Noticed

- A. Leaves eaten irregularly—or in holes—or skeletonized. Trees sometimes partially or entirely defoliated.
- B. Leaves blistered or mined and discolored in spots.
- C. Leaves crumpled or mottled and yellowed—finally drying up and brown—sometimes appearing rusty.
- D. Leaves discolored or spotted, sometimes sticky with "honey dew."
- E. Leaves turn brown and fall prematurely.
- F. Leaves or twigs show galls.
- G. Twigs are pitted or pockmarked.
- H. Buds are deformed or buds eaten.
- I. Aphids (plant lice) on branches or leaves.
- J. Woolly or white frothy masses on twigs, bark or leaves.
- K. Webs in branches or twigs frequently enclosing skeletonized brown leaves.
- L. Oval or round, white, gray, brown or black scales—small in size, seldom up to ¼" in diameter. Usually on bark, sometimes under leaves.
- M. Girdled or broken twigs or limbs on ground or hanging loosely.
- N. Bark discolored, sometimes exuding sap or pitch. Dying tops and wilting twigs. Wood honeycombed or "engraved." Frequently strings of frass or "sawdust" visible.
- O. Central or terminal leaders wilt and turn brown.
- P. Green bark is eaten and tips are dead.
- Q. Plant looks sickly due to grubs eating the roots.
- R. Boring dust on ground, or trunk, or limbs.
- S. Twigs (or canes of Roses) swollen.
- T. Needles dwarfed and browned.
- U. Rough spindle-shaped bags, containing caterpillars, hanging from twigs.

Ornamental Trees And Shrubs

Letters refer to injuries noticed; numbers refer to insects

- Ailanthus (Tree of Heaven), A1. L78
- Alder, A7, 17, 20. AJ40. DI56. N98
- Arborvitae, A.U.42. B43. C54. DI56. L72. N92
- Ash, A10, 12, 15, 16, 18, 22, 27. L76, 79. N89, 90, 92
- Azalea, A22. C50. J62
- Barberry, A22, 31
- Beech, A3, 11, 17, 18, 19, 20, 24, 25, 27, 28, 31. BE49. DJ57. L75. M85. N92, 97
- Birch, A2, 5, 7, 11, 17, 18, 19, 21, 22, 23, 28, 29. A.J.40. B46. DI56. M85. N92, 93, 98
- Box, B48. C54. L76
- Catalpa, A6, 37. J66. L79
- Cedar, A17. AU42. C54. L72. 79. N92
- Crataegus (Hawthorn), A3, 27. J62. L74, 80. N100
- Cypress, A17. N92
- Dogwood, B.E.49. L79. M85. N92
- Elder, A17. L79
- Elm, A5, 7, 10, 16, 17, 18, 21, 26, 27, 30, 31. A.B.38. AJ40. B.44, 45. B.E.49. DI56. DJ57. F58. J53. K68. L69, 76, 79, 80. M85, 86, 87. N92, 94, 95
- Euonymus, L70
- Fir, A33. C54. L71, 77
- Hackberry, A14, 26. AJ40
- Hazel, A4, 21, 29
- Hemlock, L71. N92, 101
- Hickory, A15, 16, 18, 19, 21, 25, 28, 29. AJ40. K68. L75. M85, 86, 87. N92, 96, 97
- Holly, B47
- Honey Locust (Gleditsia), A3, 17. AJ40. M86
- Horsechestnut (Buckeye), A31. AJ40. AU42. L76. N97
- Juniper, A17. C54. L72
- Kalmia (Laurel), C51
- Larch, A11, 31, 33. DJ57. N92. T112
- Lilac, A1, 15, 22. L76. N90
- Linden, A1, 7, 10, 16, 21, 27, 28, 31. AJ40. L76, 79. M86. N97. NP103. S110
- Locust (Black or Yellow), A10, 18, 20, 28. AU42. BE49. M87. N89. NR106. S108
- Magnolia, L73, 82
- Maple (various species), A5, 7, 10, 12, 13, 17, 18, 20, 21, 22, 24, 25, 27, 29, 31. AJ40. AU42. DI56. DJ57. J63, 64, 65, 66. L71, 74, 75, 76, 79. M85, 87. N89, 92, 97. S110
- Oak, A3, 4, 5, 10, 17, 18, 19, 20, 21, 24, 27, 28, 29, 31. BE49. C54. K68. L75. LC83. LG84. M85, 87. N89, 92, 97, 102
- Pine, A17, 33. C54. DJ57. H61. J67. L71, 77, 81. N92. O107. T111
- Poplar (Cottonwood), A7, 8, 10, 11, 18, 20, 21, 22, 26, 31, 32, 34, 36. AJ40. DI56. K68. L74, 76, 79. M86. N89, 93, 98, 99. NR104
- Privet, C54, 55. DI56
- Rhododendron, AQ41. C51. J62. N91
- Rose, A23, 31, 35. AH39. C53, 54. DI56. F59. J63. L78, 79. S109
- Salvia, A15
- Sassafras, A17, 18, 22, 31. M87
- Sourwood, A28
- Spice Bush, A22. L74
- Spruce, A17, 33. C54. F60. L79, 81. N92. O107
- Sweet Gum (Liquidambar), A10, 15, 17, 19, 22. AU42
- Sycamore (Buttonwood), A1, 17, 18, 21, 31. AU42. C52. L74. N97
- Taxus (Yew), AQ41
- Tulip Tree, A22. DI56. L82
- Viburnum, DI56
- Virginia Creeper, A9, 31. L73
- Walnut, A3, 15, 16, 19, 21, 28. DI56. L75, 79, 80. M85
- Willow, A3, 7, 8, 11, 18, 19, 20, 21, 23, 26, 31, 32, 36. AB38. AU42. L76, 79. M88. N89. N93, 98. NR104
- Witch Hazel, A21, 28

List Of Insects

Small letters refer to "Cause of Injury"

Capital letters refer to "Injuries Noticed"

Roman numerals refer to "Suggested Treatment"

- | | | | |
|----------------------------------|------------|-----------------------------------|--------------------|
| 1 a. Ailanthus silk moth. A | XIII | 8 a. Cottonwood dagger moth. A | XIII |
| 2 a. Birch leaf skeletonizer. A | XXII | 9 a. Eight-spotted forester. A | XI, XIII |
| 3 a. Black Walnut caterpillar. A | VIII, XIII | 10 a. Forest tent caterpillar. A | X, XIV |
| 4 a. Brown anisota. A | VII, XIII | 11 a. Gipsy moth. A | I, IX, III, X, XII |
| 5 a. Browntail moth. A | VI, XXII | 12 a. Green Maple worm. A | XI |
| 6 a. Catalpa sphinx. A | XI | 13 a. Green striped Maple worm. A | VIII, XIII |
| 7 a. Cecropia moth. A | VIII, XIII | 14 a. Hackberry butterfly. A | I, XIII |

15 a. Hickory horned devil. A	VIII, XIII	61 o. European Pine shoot moth. H	I
16 a. Hickory tussock moth. A	VIII, XIII	62 p. Azalea bark scale. J	XVIII
17 a. Imperial moth. A	VIII, XIII	63 p. Cottony Maple scale. J	XIV, XIX
18 a. Io moth. A	VIII, XIII	64 p. Maple leaf scale. J	XIV, XIX
19 a. Luna moth. A	VIII, XIII	65 p. Maple phenacoccus. J	XIV, XIX
20 a. Oak tussock caterpillar. A	VIII, XIII	66 p. Mealy bugs. J	XIX
21 a. Polyphemus moth. A	VIII, XIII	67 p. Woolly Pine scale. J	XIV, XIX
22 a. Promethia moth. A	VIII, XIII	68 a. Fall web worm. K.A.	VI, XIII
23 a. Redhumped Apple worm. A	VIII, XIII	69 p. Elm bark louse. L	XIX
24 a. Redhumped Oak worm. A	XIII	70 p. Euonymus scale. L	XIV, XIX, XX
25 a. Snow-white Linden moth. A	XIII	71 p. Hemlock scale. L	XIV, XIX
26 a. Spiny Elm caterpillar. A	XIII	72 p. Juniper scale. L	XIV, XX
27 a. Spring and fall canker worms. A	III, XI	73 p. Magnolia scale. L	VIII, XIV, XIX
28 a. Yellow-necked Apple datana. A	VIII, XIII	74 p. Maple terrapin scale. L	XV, XIX
29 a. Yellow striped Oak caterpillar. A	VIII, XIII	75 p. Obscure scale. L	XV
30 b. Elm leaf beetle. A	VII, XII	76 p. Oyster shell scale. L	XIV, XV
31 b. Japanese beetle. A	XIII, XX	77 p. Pine leaf scale. L	XIV, XIX
32 b. Poplar and Willow leaf beetles. A	XII	78 p. Rose scale. L	XV, XIX
33 c. Pine sawflies; var. spec. A	VIII, XIII, XX	79 p. San Jose scale. L	XIV, XV
34 c. Poplar sawfly. A	XIII, XX	80 p. Scurfy scale. L	XIV, XV
35 c. Rose slug. A	XIII, XX	81 p. Spruce bud scale. L	XIV, XIX
36 c. Yellow striped Willow slug. A	XIII, XX	82 p. Tulip Tree soft scale. L	XIV
37 d. Catalpa midge. A	XVII, XX	83 p. Burr Oak kermes. L.C.	XIV
38 c. Large Elm sawfly. A.B.	I, VIII, XI	84 p. Pit-making Oak scale. L.G.	XIV
39 b. Rose chafer. A.H.	VIII, XIII, XX	85 o. Leopard moth. M	I, II, V
40 a. White marked tussock moth. A.J.	IX, XIII, XIV	86 q. Twig girdler. M	I
41 b. Black vine weevil. A.Q.	XIII	87 q. Maple and Oak twig pruner. M	I
42 a. Bag worm. A.U.	VIII, XI	88 r. Willow shoot sawfly. M	I
43 e. Arborvitae leaf miner. B	I, XVIII, XX	89 o. Carpenter worm. N	I, V
44 e. European Elm case bearer. B	X, XIV	90 o. Lilac borer. N	I, V
45 g. Elm leaf miner. B	XVIII, XX	91 o. Rhododendron clear wing. N	I
46 g. European Birch sawfly. B	XIII	92 q. Bark beetles; var. spec. N	I
47 h. American Holly leaf miner. B	XVIII, XX	93 q. Bronze birch borer. N	I, XI
48 h. Box leaf miner. B	XVIII	94 q. Elm borer. N	I, V
49 b.f. Locust leaf miner. B.E.	XVIII, X, XX	95 q. Elm snout beetles. N	I, XI
50 i. Azalea lace bug. C	XVIII, XX	96 q. Hickory bark beetle. N	I, V, XI
51 i. Rhododendron lace bug. C	XVII, XVIII, XX, XXIV	97 q. Flat-headed borer. N	I, V, XXIII
52 i. Sycamore lace bug. C	XVIII, XX	98 q. Mottled Willow borer. N	I, XVI
53 i. Rose leaf hopper. C	XVIII, XX	99 q. Poplar borer. N	I, V, IX
54 j. Spider mites. C	XX, XXI	100 q. Round-headed borer. N	I, V, XXIII
55 k. Thrips. C	XVIII, XX	101 q. Spotted Hemlock borer. N	I
56 l. Aphids or plant lice, not woolly; var. spec. D.I.	XIV, XVIII, XIX, XX	102 q. Two-lined Chestnut borer. N	I, XI
57 l. "Woolly" aphids; var. spec. D.J.	XIV, XIX	103 q. Linden borer. N.P.	I, V
58 m. Cockscomb Elm gall. F	VIII, XIV	104 q. Cottonwood borer. N.R.	IV, V
59 n. Rose galls. F	VIII	105 q. European Elm bark beetle. N.R.	I
60 m. Spruce gall aphid. F	VIII, XVII, XXIV	106 q. Locust borer. N.R.	I, XV, XI, V
		107 q. White Pine weevil. O	I, X, VIII
		108 o. Locust twig borer. S	I
		109 q. Rose stem girdler. S	I
		110 i. Norway Maple leaf hopper. S	XVII
		111 o. Pine tip moth. T	I
		112 o. Larch case bearer. T	X

Causes Of Injury

- | | |
|---|--|
| a. Leaf-feeding caterpillars— <i>Chewing</i> | i. Leaf- or twig-sucking bugs |
| b. Leaf-feeding beetles— <i>Chewing</i> | j. Leaf-sucking mites |
| c. Leaf-feeding false caterpillars or slugs— <i>Chewing</i> | k. Leaf-abrading and sucking insects |
| d. Leaf-feeding maggots— <i>Chewing</i> | l. Plant lice— <i>Sucking</i> |
| e. Leaf-mining caterpillars— <i>Chewing</i> | m. Gall-making plant lice |
| f. Leaf-mining beetle grubs— <i>Chewing</i> | n. Gall-making wasps |
| g. Leaf-mining false caterpillars or slugs— <i>Chewing</i> | o. Boring caterpillars— <i>Chewing</i> |
| h. Leaf-mining maggots— <i>Chewing</i> | p. Scale insects— <i>Sucking</i> |
| | q. Boring beetles or their grubs— <i>Chewing</i> |
| | r. Boring false caterpillars— <i>Chewing</i> |

Suggested Treatment

CULTURAL MEASURES

- I. Keep trees and shrubs strong and well nourished. Remove badly infested trees or parts and burn before May 1. Remove and burn bark from stored logs. Remove infested leaves or twigs when possible or feasible, and burn in late summer or early fall. Rake up and burn rubbish and fallen leaves or twigs as soon as noticed. Paint scars and wounds with good tree paint and have competent tree surgeon treat all cavities.

MECHANICAL METHODS

- II. Use moth trap with blue light, hung over kerosene floating on water.
 III. Band trees with tree-banding material from September 1 to June 1.
 IV. Base of tree to be protected by wire screen, not over $\frac{3}{8}$ " mesh, around trunk—1 ft. high, 2" away from trunk—but snug to trunk at top edges and extending several inches into the ground.
 V. Cut out borers carefully with sharp knife, or force flexible wire into their burrows, or inject carbon bisulfide and plug entrance hole with clay or putty.
 VI. Burn webs or hibernating nests.
 VII. Destroy pupae in ground at base of trees by digging or hot soap suds.
 VIII. Hand pick or shake insects into net or bag and burn them.
 IX. Paint egg masses with creosote.

SPRAYS

For dilutions on various plants consult manufacturer's recommendations. Use great care with miscible oils on evergreens. We do not recommend winter oils for Larch or Sugar Maple. For all "Woolly" sucking insects, use forcible spray with efficient spreader of high wetting power. For Leaf feeding insects generally spray UNDER the leaves. Never spray when the temperature is below 40° F.

- X. Lead arsenate spray in early spring.
 XI. Lead arsenate spray in late spring.
 XII. Lead arsenate spray as buds burst.
 XIII. Lead arsenate spray as soon as larvae, insects or injuries are noticed.
 XIV. Miscible oil spray in dormant period, before foliage starts growing.
 XV. Miscible oil spray in delayed dormant period, just as leaves have started.
 XVI. Bathe tree trunks in early April with carbolineum emulsion.
 XVII. Nicotine contact spray with an efficient "spreader" and good "wetting power"—soon after new growth starts.
 XVIII. Nicotine contact spray as soon as insects are seen or injury noticed. For leaf miners, keep leaves covered with the spray during emergence period. Molasses added to the spray assists in this case.
 XIX. Nicotine contact spray as soon as eggs hatch and insects move.
 XX. Pyrethrum contact spray with an efficient "spreader" and good "wetting power" as soon as larvae, insects or injuries are noticed.
 XXI. Dust with fine sulphur, or spray with potassium sulfide and soap combination.
 XXII. Lead arsenate spray in August.
 XXIII. Apply deterrent wash—such as soap and naphthalene compound.
 XXIV. Nicotine contact spray, late August.

The Gardener's Calendar

For March

This Calendar of the gardener's labors is planned as a reminder for taking up all his tasks in their proper seasons. It is fitted to the climate of the Middle States, but may be made available for the whole country

if, for every one hundred miles north or south, allowance is made for a difference of from five to seven days later or earlier in the time of carrying out the operations. The dates are for an average season.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>1. Chrysanthemums for next fall must be propagated now. If the space is available, it is good practice to put in a batch of cuttings every four weeks until June to assure a long period of bloom well into the autumn. This applies, of course, to the greenhouse varieties.</p> <p>8. Where absolutely necessary, Bay trees, Hydrangeas and other ornamental plants should be re-tubed. Others can be re-fertilized by digging out some of the old soil with a spade and filling in with a rich, fresh mixture. The roots will work into this fresh area.</p> <p>15. Any changes in old plantings or new plants contemplated for the perennial border should be finished up at the earliest moment. Those which are planted early in the season will come into flower late this coming summer. When setting out, give each plant some raw ground bone.</p> <p>22. The top protection on the Rose bushes can now be removed; dig the winter mulch of manure well under. A liberal application of bone meal to the soil will produce worthwhile results during the flowering season. All pruning of bush types must be finished at once.</p> <p>29. Palm Sunday. Manure or other mulching applied to lawns last fall must now be raked up. All lawns should be raked clean and rolled or tamped. A top dressing of wood ashes and bone meal will help to produce a good vigorous growth of grass. Scatter it evenly.</p>	<p>2. Rhubarb should now be showing some growth. Barrels placed over the plants will give earlier and better stalks, as they help to equalize the temperature and prevent night chilling. Beds that were not mulched should have a good application of manure dug into them at about this time.</p> <p>9. Asparagus starts growth very early, so dig the winter mulch under now, hill up the rows on the old plantings, and apply salt liberally. New plantings should be started now from good roots. Let the trenches be 18" deep, 12" wide with several inches of manure in the bottom.</p> <p>16. Better make arrangements now to use your greenhouse for some useful purpose this summer. Potted fruits, Chrysanthemums, Melons, English forcing Cucumbers, etc. are some of the many possible products. A well managed greenhouse is kept busy the year around.</p> <p>23. Small fruits of the different types can be planted now. Grapes, Raspberries, Blackberries, etc. can be trained on wire trellises, or stakes may be used. The latter are neater and more economical of space. Under no circumstances should these fruits be left unsupported.</p> <p>30. All the best varieties of Dahlias roots should be started into growth so that cuttings can be made of those desired. If the roots are laid upon a few inches of sand and watered freely they will soon start into growth. Plants grown from these cuttings blossom next summer.</p>	<p>3. If you are considering new lawns this spring get the ground ready for seeding as soon as it can be worked. Early sowings will be much freer of weeds than those which are made during the summer. Besides this, the young grass will get better established during cool spring weather.</p> <p>10. All the exotic plants, such as Kentias, Dracaenas, Coccos, Arecas, etc., should be re-potted at this time. Use pots about 1 inch larger than the plants now occupy. The soil must be light, containing plenty of leaf mold and moderately enriched with some safe fertilizer.</p> <p>17. Sowing of all the more common types of annual flowers under glass should be attended to now. Asters, Zinnias, Calendulas, Balsams, Salvia, Marigolds, Scabiosa, Pansies, Stocks, etc. are some of the many varieties that may be planted. Outdoor sowing in late April.</p> <p>24. All the various garden tools will soon be in use regularly. Are they in proper condition? Good work is impossible with poor or dull tools. Go over all the implements, removing any rust and sharpening the cutting edges. A power-driven emery-wheel is good for this.</p> <p>31. All trees and shrubs that are subject to attacks of San Jose scale should be sprayed with one of the soluble oil mixtures before the buds swell. At least forty-eight hours are needed to smother these pests. Dry weather should be selected for doing this job.</p>	<p>4. Changes of all kinds where the moving of plants, sods, hedges, etc., is involved must be carried out at once. This also applies to garden walks which, if altered in early spring, settle by summer. Clean up thoroughly when the work is finished, and its signs of disturbances will soon disappear.</p> <p>11. Make a habit of heeling in your nursery stock the instant it arrives. Stock that is allowed to lie around in the wind and sun is certain to show heavy losses, because its roots will be dried out. Soak in water before heeling in if the stock is at all dry when unpacked.</p> <p>18. This is the time to think of flowers for next winter in the greenhouse. Primula of the Chinese or Obconica type, Cyclamen and Antirrhinum are three of the best sorts. They should be started from seed now under glass and kept growing without check the whole season.</p> <p>25. Most of the diseases to which Potatoes are heir are caused by dry, hot weather. Potatoes like cool, moist soil. Prepare a piece of suitable ground and plant them now, or as soon as the soil can be worked. An early start makes for success in raising a crop.</p>	<p>5. All new plantings of hardy stock must be set out. The earlier in the planting season this is done the less losses you will have. Just as soon as the frost leaves the ground is the proper time for this work. If the weather should be dry, water thoroughly and apply a mulch.</p> <p>12. Cuttings of all the various types of bedding plants should be started in sand in the greenhouse early this month. Coleus, Geraniums, Lantana, Heliotrope, Ageratum, etc. are some which come under this heading. Do not overwater them, but be sure the sand remains damp.</p> <p>19. The covering on the Strawberries should be removed and burned and the manure mulch can be dug under. In cases where for some reason no fall mulch was applied the bed should be well manured and dug in. Strawberry growth starts early and should have every chance to develop.</p> <p>26. Mulches of all kinds applied to shrubbery borders, perennial plantings, flower beds, etc., should be dug under. In doing this, get the manure as deep as possible without injuring the plant roots and see that it is thoroughly incorporated with the soil to the full depth.</p>	<p>6. If you have not already planted them, seeds of Cabbage, Cauliflower, Celery, Parsley, Lettuce, Tomatoes, Eggplant, Peppers, Leek and Onions should be sown. Use shallow boxes filled with sandy loam, and after sowing and careful watering keep them in a sunny window or hotbed.</p> <p>13. Cannas, especially the new or better types, should be divided by cutting the eyes separately. They can then be rooted by placing in sharp sand, or they may be potted up in a very light soil mixture if you prefer. If you are familiar only with the old types, try the fine new ones.</p> <p>20. Before the buds burst on the deciduous trees and shrubs, the whole growth should be looked over carefully for any caterpillar nests which can easily be destroyed by burning without injuring the plants. A kerosene torch is an excellent implement to use for this work.</p>	<p>7. Boards, straw, burlap, cornstalks and other winter covering materials for Boxwood and such tender plants must be removed now. If possible, select dull, cloudy weather for carrying on this important operation, so that there will be no injury through too sudden exposure.</p> <p>14. All the necessary pruning must be attended to now. Foliage trees and shrubs, all the flowering types that blossom on the terminals of the new growth, such as Roses and fruits of all kinds, require attention. Never prune spring-flowering shrubs before flowering.</p> <p>21. Have you everything in readiness for the opening of the big garden drive next month? Seeds, garden fine, plant labels, measuring stick, Pea brush, Bean poles and Tomato supports are a few essentials. They should be on hand in advance, lest matters be delayed later on.</p> <p>28. William R. Prince, nurseryman, died 1869. Specimen trees of all types that are not growing satisfactorily can be invigorated by cutting a trench entirely around the tree about four feet from the trunk and filling it with good rich earth well tamped down.</p>

○ Full Moon, 4th, 5h. 36m., morning, W.

☾ Last Quarter, 11th day, O h. 15m., morning, E.

● New Moon, 19th day, 2h. 51m., morning, E.

☾ First Quarter, 27th day, O h. 4m., morning, W.

First Week: Fair and warm, last snow melting. Beware!

Second Week: A foot of wet snow, followed by rain.

Third Week: Icy first half, thawing second.

Fourth Week: Clear, brisk, northwest gales.

March Flowers

"March cometh in like a lion," and "March winds and April showers bring forth May flowers." But however cold and blustering March may be, it is not merely a nursery for flowers to come in May; it has abundance of flowers of its own, both in the fields and hedgerows

and in the gardens. There are perhaps no more welcome flowers than the wild-flowers of March; in the hedges are primroses and violets, and everywhere is the bright coltsfoot and the lesser celandine, certainly one of the brightest flowers of the year. —Dean Ellacombe

Old Doc Lemmon Finds Virtue In Listening

"When they git to talkin' 'bout Spring, the things most folks seem to think of are them that they can see or smell. Flowers, grass gittin' green, pussy-willers, birds a-huntin' worms on the front lawn—them's the sort o' things ye generly hear tell of as meanin' thet Winter's gone for good.

"Now, signs like them are all right an' mighty dern welcome after three-four months o' snow an' cold an' chilblains an' rheumatiz. But it allus seems to me thet some o' the best proofs thet Spring's come can't be neither seen nor smelled, but only heard. Somehow, a body's ears can git a message to his insides just as quick as his eyes or nose can.

"Without throwin' no wet blanket on nothin' else, can ye think of anythin' thet's fuller o' the sperit o' Spring than the peeper frogs tinklin' down in the swamp medders when the March sunshine's brightest? Or a wood-

pecker drummin' on a dead stub in the woodlot, or thet fat robin singin' at dusk from the tip-top o' the old ellum tree back o' the barn, or the hosses kickin' the sides o' their stalls 'cause they hanker to git out an' see if there's any new grass comin' up in the pasture? Even the chickens an' ducks talk diff'rent when Spring begins to git into their blood, an' so do the leetle song sparrers thet hev been livin' in the catbrier thicket all winter.

"But of all the sounds o' Spring, there ain't none thet mean more to me than the voice o' Birchy Holler Brook at night, free from ice an' rushin' bank-full through the damp, still darkness. From away down in the valley it comes a-driftin' strong an' steady, an' as I stand an' listen I know for certain thet Winter's gone an' thet purty soon it'll be time to git out the old fish-pole ag'in."

There's nothing like a
glowing soup to brighten
the Lenten meal!



The restrictions of the season in many homes bring an added problem to the puzzled meal-planner. In her efforts to maintain the variety and attractiveness of her table, she eagerly welcomes such allies as these four strictly vegetable soups, containing no meat in any form — Tomato, Asparagus, Celery, Pea.

Their tonic vegetable goodness is augmented by nourishing creamery butter, and of course the blending and seasoning reveal all the art and skill of Campbell's famous French chefs. Even richer and more delightful when *creamed* according to the simple directions on the labels. Order a supply today. 12 cents a can.



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Small footed American pewter bowl made about 1820. It was originally used as a baptismal font. American Art Association—Anderson Galleries, Inc.

English And American Pewter

(Continued from page 75)

Box: For candles, money, pepper, powder-puff, pounce, salt, sand, snuff, tobacco, etc. Many types and sizes. 18th Century—elaborate English tobacco boxes; rectangular, cut corners, shaped lid with finial, scroll feet. Snuff-boxes and mulls, especially English and Scotch, late 18th and early 19th Centuries; box generally oblong with rounded corners, rarely circular; fanciful pistol, slipper, and grotesque mask forms; inside often gilded. Plain or engraved in French, Dutch, or German styles—scrollwork, floral, hunting scenes, etc. Seldom marked.

Britannia metal: English, about 1825; a trade name for superfine quality of pewter; later hardened as substitute for Sheffield Plate. 19th Century—tea and coffee sets.

Candlestick: English types in period styles largely follow silver designs since Middle Ages. Many types—tall, medium, and low; plain or highly ornamental. Decorative Jacobean, William-and-Mary and Queen Anne types; plainer in early Georgian, late 18th Century—baluster, Adam classic column type, early 19th Century—with simple border ornament. Taper holder—small candlestick, 17th Century and later. American: Colonial—plain, tubular, for pricket or socket; home-made until about 1750, when commonly made by pewterers; simple baluster and other English types. Brass more common in Federal period (1750-1825) except for kitchen and cottage use. Low chamber candlesticks of pewter or white metal, with cone extinguishers.

Cardinal's Hat: English, 15th Century and later; flat dish and saucer resembling hat of a cardinal.

Chapnet, chapnut: English; heavy 17th Century type of salt-cellar.

Cistern: English; 17th Century and later.

Cistil: 14th Century, English; small box, generally square.

Coaster: English; 18th Century and later.

Coffin: English; crust-mold for meat-pie.

Collecting: Little interest in old pewter until 20th Century; few collectors, and little known of it. Notable museum and private collections now being made. English: Guildhall Museum, large vessels and fine table plate, from 16th Century; Victoria and Albert Museum, massive pieces, some silvered; many private collections by members of the Pewter Collectors' Society and others. American: The Metropolitan and other museums, many historic houses with local col-

lections, private collections. Pieces kept polished in most collections, but occasionally unpolished. Texture, color, form, ornament, probable age, nationality, technique, artistic and historic interests are notable points in collecting.

Cooking utensils: Every type and size formerly made in large quantities. Colanders with side handles, pierced in attractive patterns, especially early 19th Century. 18th Century—funnel or tundish, with ring for hanging.

Counterfeit: English; small bowl or porringer, pierced ear handles, a large Tudor rose generally stamped on the bottom; several sizes. Dutch examples much used in England.

Counterpayne: See Touch Plate, and Marks—English.

Cup: British—great variety of sizes and shapes; one, two, or no handles. Beaker, beer bowl, brewer's cup, chalice, cider cup, Corporation Cup or Hanap—elaborate standing cup, eared cup—see Porringer, egg-cup, French cup—old type, footed cup—short stem, goblet, posset cup—saucupan type, tankard, two-handled cup, wine cup. American—beaker, bowl, flagon, goblet, mug, tankard.

Decoration: British and American, usually plain, with molding; beaded or reeded rims; encircling rings in relief or incised; occasional engraved floral motif or coat-of-arms. Chasing, engraving, gadrooning, rarely *repoussé*, *pointillé*, stippling, wriggled—joggled work, turned finials, some piercing—especially ear handles. Painting and gilding on small English pieces; prohibited since 1564.

Decorative Plate: Rare since 16th Century; of Continental inspiration.

Dish: Properly designates a large plate. Various English names since 15th Century—charger, cardinal's hat, Florentine dish, galley dish, meat dish, platter, rose-water dish, small dish, venison dish, etc. Oval forms in vogue mid-18th Century. 19th Century—English flat platter, strengthened by molding.

Drinking Vessels: Beaker, can, cup, ewer, flagon, jug, measure, mug, tankard, tappit-hen, quaggh.

Ear or Eared Dish: With flat projecting horizontal handles—ear handles, solid or pierced. British—bleeding bowl, *écuelle*, quaggh. American—porringer. Cast rose soldered inside English Tudor eared dishes.

Ecclesiastical: Church plate, early of pewter except for festivals. 13th Century—large chalices with handles.

(Continued on page 106)

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France finds
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this patrician
TAPESTRY



One sees in this splendid Schumacher production much of the etched-like beauty and rare shading of an Aubusson. The seat and back depict flowers in warm tones clustered on a neutral ground. Embroidered motifs, too, ornament the arm strips. A richly distinguished tapestry to suit the fine, supple contours of a Louis XV chair . . . or to grace an occasional chair in various decorative schemes of character and charm. « « « Schumacher Fabrics are sold only through decorators, upholsterers or the decorative departments of department stores. Send for complimentary booklet "Fabrics—the Key To Successful Decoration," Dept. E3, 60 West 40th Street, New York. Offices also in Boston, Philadelphia, Chicago, Los Angeles, San Francisco, Grand Rapids, Detroit.

F·SCHUMACHER
AND COMPANY

English And American Pewter

(Continued from page 104)

Flagons and tankards commonly used in Great Britain. Baptismal basin and ewer, alms basin; chalice and paten. Chapnet, English, 17th Century, small vessel. Scotch communion tokens, about 1 inch diameter, stamped round or hexagonal; 17th Century—larger with date and monogram; 18th Century—minister's initials occasional.

Ecuelle: French eared broth bowl or vegetable dish. Term used for saucer in England.

English: Superior metal, early worked, common since Middle Ages. Domestic and ecclesiastical; rarely gilded, sometimes decorated. 14th Century—feast vessels hired for Christmas, etc. 15th Century—dishes, plates, porringers, etc. 17th Century—general use, replaced by silver for wealthy. After Restoration, complete pewter table services temporarily replaced silver melted for war. Made in London, York, Newcastle, Exeter, Bristol, etc. Brief Art Nouveau revival, late 19th Century. Important modern revival.

Ewer: Jug, or pitcher. English—early rose-water type; 17th Century—hawkbill and ravensbill—large and small, both with beak-shaped lip-pouts.

Fine Metal: See Pewter.

Flagon: Large tankard, flat or domed lid. Early domestic and ecclesiastical types similar. Superseded Cromwellian black-jacks. Frequent Rose decoration inside bottom, cast or soldered. Body, cylindrical, tapering, bulbous at bottom, or pear-shaped. English, Irish, and Scotch variants with C-shaped or other handles; lids, finials, and thumb-pieces varied.

Florentine dish: English, 15th Century and later; serving dish for meat.

Garnish: English; old term for set of dozen each—dishes or flat bowls, saucers or flat plates, and platters.

Goddard: English; from French *godet*; tankard, two sizes, largest size with dolphin ears.

Guilds: English; 1348—earliest record of Pewterers' Company "Ordinances," London. 1473—"The Craft of Pewterers." 1612—"Company of Pewterers." "Worshipful Company of Pewterers," London, supreme in influence throughout England. Other guilds at York and Edinburgh. Irish pewterers included in Guild of Smiths, Dublin, and Society of Goldsmiths, Cork. London Company regulated pewterers' work strictly; the regulations similar in essentials to those of Paris, Limoges, and Rouen. No night work, pewterers must serve full apprenticeship to become masters in the Company, weight of articles fixed, different alloys for different vessels, the alloys tested by standards kept at Pewterers' Hall; all plates must be finished around the boogie by hammering, to strengthen them. 1621—new tin and lead only were used. Efforts were constantly made to lessen the practice of recasting old pewter and debasing the quality by added lead; which efforts resulted in gaining the reputation of supremacy for the quality of English pewter.

Handle: Flat strap metal or hollow cast; often with thumb-piece; lower end terminals—early a flattened curve, bulbous curve, blunt curve; English

—fish-tail; Scotch—rudimentary split end.

Hot water plate and dish: English, mid-18th Century; many patterns. A shallow bowl underneath the plate for hot water to keep food warm. Round or octagonal like set of plates; platter, or venison dish with gravy channels in tree form; fixed or loose tops; fixed or drop handles; sides molded or perpendicular.

Irish: English pewter much used; 14th Century and later, records of pewterers—Joseph Austen and Robert Powell of Cork, John Heaney of Dublin, Charles Clarke of Waterford, notable. Irish harp, an old touch mark, Dublin.

Lighting Fixtures: In successive period styles follow silver types—candlestick, sconce, lamp—whale oil, camphene, spirit, etc.; Betty lamp; courting, or sparking lamp; marine, or ship's lamp, etc. Brass trimmings occasional in England.

Loggerhead: Circular inkstand, generally on flat dish or base.

Marks: English—English and American marks often similar. 1423—a regulation that pewter ale-pots should be "sealed"—doubtless stamped. 1503—compulsory marks by Act of Parliament on lay metal; finer metal probably marked earlier. First recorded use of official "touches" about 40 years later. Counterpayne—a sheet of metal kept at Pewterers' Hall, London, on which the pewterers' touches were stamped for verification. The stamp itself called counterpayne at York. Guilds in London, York, Bristol, Exeter, etc. York copied London. Many known touches with dates on pieces, 1673-1824. Some pewter unmarked, especially by small country or traveling pewterers. Much unmarked pewter, 1830-50. Many 19th Century candlesticks and table beakers unmarked. Generally the smaller the mark the earlier the piece, like a small circle surrounded by beads or dots, 16th or 17th Century; but early marks on dishes are larger than later. The large touch on any piece is the most important mark. The touch consists of initials or full name of pewterer, and various devices: Company's quality mark—the Rose or "stryk," generally but not always with Crown above. Makers' mark, not required by the Pewterers' Company, but simulated silver hall-marks: four small shield-shaped punches, usually in a row, containing leopard's head, initials, a sun in glory, heart, hand, dolphin, dog, caduceus, angel on globe, Catharine wheel, etc.; generally 17th or early 18th Century. Crown and Feather, Rose and Crown, Royal Arms with Garter and Crown—Tudor marks. Figure of angel rare, and different from Continental. Some part of a still occasionally used as chief device on London 18th Century pewter. 17th Century—generally maker's name only; occasional portcullis—the form of the pewterer's sign. A new touch—accompanied by a knot or ff shows original touch confiscated through wrong practice. Pieces turned on lathe, early 17th Century; forbidden by Pewterers' Society, 1681; but lathe used for many 19th Century

(Continued on page 108)



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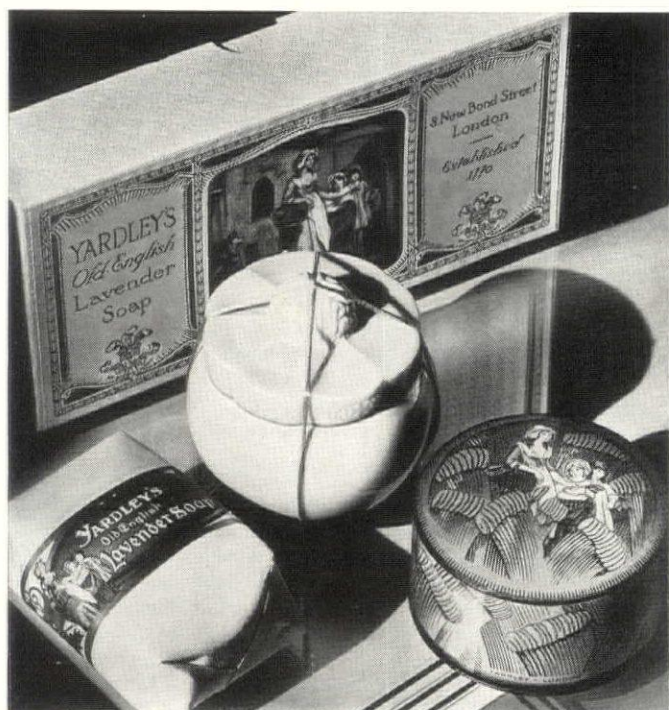
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English And American Pewter

(Continued from page 106)

London marked pieces. Letter X with or without a Crown indicates extraordinary quality of metal. Rose and Crown, a favorite mark as on Continent, permitted on pieces to be sold outside London, but not with maker's name, initials, date, etc. Name of maker, sometimes with address, inclosed in a rectangle. British Eagle on many pieces, but unlike American. Owner's initials: stamped on plates and bowls; finely engraved on tankards and other fine pieces; arranged triangularly nearly always in 17th Century, disused possibly about 1725, the top letter being the initial of the surname, bottom at left of the man's Christian name, bottom at right of wife's Christian name. Marks: Irish—harp, an old Dublin mark. 1697—a statute required pewter of same quality as in London. Marks: Scotch—regulated since 16th Century. Maker's touch—design with name often embodying a pun. 16th Century—quality mark, Crowned Hammer or maker's name; 17th Century and later—Thistle; 18th Century—Crowned Thistle, English Crowned X, Expanded Rose. Arms of city occasional. Glasgow—Tree with fish across trunk and bird on top; Edinburgh—Three-towered Castle. Marks: American—not compulsory; few marked pieces before 1750. 1830-50—much unmarked pewter. Colonial: Crowned Rose, Crowned Rose with other marks, initial not in Crown or on Rose; State coat-of-arms or other devices; individual name plate. Federal and later: American Eagle, early simple, later outstanding; 1790-1825—Eagle general. In 1825 and later—plain standard punch with name or name and address, generally in a rectangle. Hallmarks used by ten makers. Letter X does not signify fine metal.

Measure: Graduated sizes, various shapes, with or without lid; baluster, pot-bellied, bulbous Bristol type. English, 17th Century—Winchester, thurndell or thurmdale. Irish—haystack. Scotch—mutchkin, 5 gills; chopin, 6 gills.

Modern: One English firm traces direct connection with London Pewterers' Company established 200 years ago. Some English 19th Century pieces—tankard, measure, salt, pepper, mustard-pot, and other small pieces resemble polished lead. Increasing use of pewter in England and America. Some extraordinary applications of this metal in modernistic designs, as during the earlier Art Nouveau Continental influence.

Molds: Made of gun-metal, brass, stone, sand, plaster of Paris. Plates, dishes, spoons, etc., cast and polished. Flagons and tankards cast in several pieces, soldered, and turned on lathe. Handles cast, hollow. Old pewter frequently recast, though prohibited by guilds. Much 18th Century English pewter has been recast at least three times.

Mull: Late 18th and early 19th Century; small horn-shaped implement for working snuff; often a ram's horn, pewter mounted. Durie, a noted Scotch maker of snuff mulls. See Box.

Nef: Like silver; ship with sails and rigging, for liqueur, with faucet in stern.

Pewter: Alloy variously constituted, tin with copper, brass, lead, antimony, bismuth, modernly with zinc. English grades: 1. 112 parts tin, 26 copper—fine or plate metal, standard for plates, dishes, etc. 2. 100 tin, 17 antimony. 3. 60 tin, 40 lead—the Black Metal of public houses. "Tin"—for hollow-ware, 112 parts tin, 26 lead. Trifling Metal or Trifle, with more lead, for ale house pots. Ley, Lay, or Lea Metal, more lead added, and thus allayed. Tests by weight, color, feel, resonance. Texture—surface absorbs light, balancing reflection and absorption, producing a soft luster. Color—subdued bloom on old pewter; different qualities age differently. American—usually 4 parts tin, 1 lead.

Pewterers: English, different classes—sad-ware-men, hollow-ware-men, spoon makers, makers of lids for stoneware pots, etc. Hundreds of recorded names: 17th Century—Samuel Jackson, Robert Lucas, Thomas Dickenson, Laurence Dyer, Ralph Marsh, Ralph Hill, Nicholas Kelk, Francis Lee, Thomas Stone, and a few women—Jane Loftas, Kath, Hutchinson, etc. American—no classes of craftsmen. Over 200 names recorded. Over 213 marked articles. Paul Revere, the silversmith, made some pewter. Other early makers: Richard Graves, Salem, Mass.; John Holden, New York; Henry Shrimpton, Boston; and six others before mid-18th Century.

Pirley-Pig: 1602, a money bank, Dundee, Scotland; for fines for non-attendance at the Council; a rare decorative piece.

Plate: For eating, used until 1810-15, England; 1820-25, America. Plate of trencher size, less than 10 inches. Sets, all sizes, 8-inch to 25-inch dishes. Stuart type—broad brimmed about 1 3/4 inches; later, 5/8-3/4 inch, edge often reeded. 18th Century—beaded edge; five-lobed—scalloped or wavy edge about 1760-80; plain, reeded, gadrooned; octagonal.

Plate Metal: See Pewter.

Porringer: British—covered two-handled bowl. American—shallow bowl; two ear, or lug handles, pierced, with scalloped edges.

Pot: Measure or drinking vessel. English—great, small, and half pots. Thurndell, thirddendale, or thirddendale, holding about three pints; half thurndale, hooped thurndell, "great hooped quart," Winchester quart and pint, long hooped Winchester pint, jug pot, etc. Pint pots and tankards, as rowing prizes at Oxford and Cambridge, modernly of Britannia.

Quaigh, Quaich, Queych, Quegh: Scotch drinking vessel; shallow bowl or saucer, the bowl rounded, not flat bottomed; two lug, or ear, handles, somewhat resembling American porringer; 3 1/2- to 10-inch in diameter.

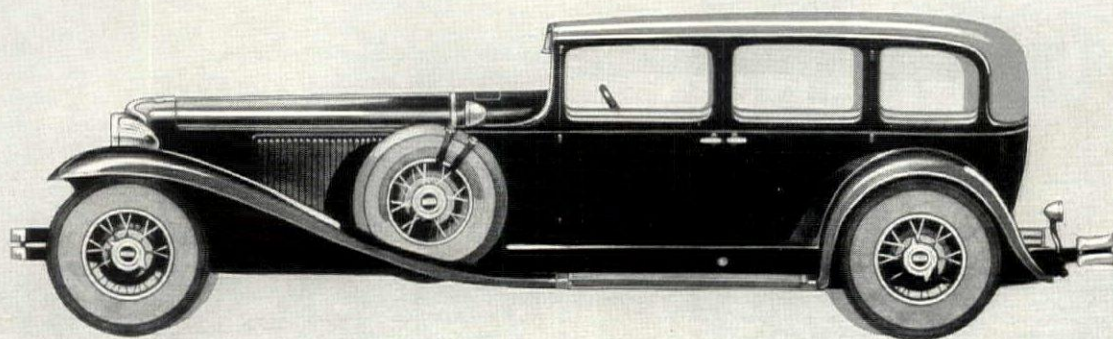
Rose Pewter: See Marks.

Rose-water Dish: Early English; Carolean example—arms of King Charles in enamels in center.

Sad-ware: Hollow-ware; its makers known as sad-ware-men.

Salt: English; Stuart spool-shaped or standing salt; 17th Century—trencher salt with depressed well; mid-18th Century—cup on circular foot.

(Continued on page 122)



ANNOUNCING THE NEW 1931 PROGRAM FOR THE CORD FRONT DRIVE

In keeping with our long standing policy, we are again able to make the public the beneficiary of the savings obtainable through better manufacturing methods and greater buying power. For the first time, a Cord Front-Drive car is now offered to a larger market. Owners of the Cord Front-Drive will tell you it is the finest automobile in the world. Nothing less than a totally new *kind* of motoring could make possible the successful invasion of the Cord into the fine car field. Its sales in its first year represent nearly twenty per cent of all cars sold above \$3000. The Cord became the model for the entire automobile industry to pattern after. It is this car, which is the standard of fine car values, with its exclusive front-drive advantages, which we are now able to offer for the first time at the extremely low price of—

\$ 2395

BROUGHAM \$2395 • SEDAN \$2395 • CONVERTIBLE CABRIOLET \$2495 • CONVERTIBLE PHAETON SEDAN \$2595
Prices f. o. b. Auburn, Ind. • Equipment other than standard, extra • AUBURN AUTOMOBILE COMPANY, AUBURN, IND.

CORD

FRONT DRIVE

Recent Developments In Building

(Continued from page 90)

weather is mild and over-heating both objectionable and expensive. Radiation, naturally, is figured to give 70-degree warmth on the coldest days. As extreme weather does not usually last long, it is claimed that this device makes possible economies in fuel to the extent of 20 to 40 per cent as compared with systems employing hand operated valves. This gadget sees to it that only as much of the radiator is heated as is required to hold the temperature at the desired degree.

FADED DRAPES

IN ANNOUNCING a line of fast dyes to the fabric trade, a leading dyestuffs producer says: "There are people who use dyes, purposely or in ignorance, which are not suited to the purpose for which the dyes are used." When this happens, colors fade; disappointment and expense follow. The day when American dyes were not fast is long past. This supplier goes on to say there are trade-marked lines of fast-dyed fabrics, the dyes being so fast that they will stand several years of normal exposure to sunlight in draperies and upholstery before fading. "Be insistent when asking, learn the maker of the dyes", suggest this firm to its trade. This may be a good suggestion for all of us to follow.

SAFETY GLASS

MOTOR car makers and owners are fast adopting laminated safety glass. And some home owners are asking the glass manufacturers why this non-shatter glass would not be good as a medium for making windows burglar-proof—"it is so hard to break through," they say. Not because it is hard to break through, but because a special tool is required to cut it, there might be merit in it as a "burglar-proof" of windows. But be warned, as the producers warned me, it is apt to turn yellow or brown upon long exposure to sunlight. In a car there is no chance for this glass to discolor, because the life of a car is much shorter than the time required for such discoloration. Until this remarkable glass is further perfected, one had better let electrical precautions keep out the second-story men.

COMBINATION PADLOCK

THERE is a bronze padlock which has, instead of a keyhole, three small dials with numerals from 0 to 9 on each. Over these is a shield which, when raised, serves as the lever or latch by means of which the lock opens when the proper combination is set on the dials. Locking is accomplished by closing the shackle and the quiet operation of the combination prevents any "feel" by which it would be revealed. The combination can be changed at any time.

INEXPENSIVE OIL BURNER

IN TENDED for small and very moderately priced homes, a junior oil burner is offered by a veteran manufacturer. Radically different in design from burners previously made, this one operates on the same principles which have proved successful in the

larger burners made by the firm.

The outstanding feature is the control mechanism in which the starting impulse of the motor is used to control the oil flow and ignition. This, we are told, affords a dependable means for operating the controls. It also secures production economics that make possible the low price.

Radio interference, which has become a common problem in the operation of oil burners, is entirely avoided by means of a radio-proof transformer. The regular metering pump is used on this burner. A thermostat located in a room on the first floor controls operation of the unit.

FLEXIBLE WOOD

WOOD paneling for wall surfaces, flexible as canvas, comes by the roll. Only recently put on the market, it is a veneer of fine cabinet woods permanently mounted on stout cloth. It bends around corners, takes any finish that can be applied to wood, does not check, crack or warp, and is as pliable across the grain as a piece of leather.

Interiors of original charm and dignity are possible with this material, which can be used as a surfacing for structural parts of ordinary wood stock, for plaster or wallboard walls, and can even be applied over metal.

Suitable in new homes as well as old, it is furnished in rolls in oak, black walnut or mahogany. The cost of paneling with this product is from a third to a half less than usual. As it is applied with paperhanger's equipment, and is cut with a knife or shears, application cost is low. It is proof against temperature changes and humidity, and permanent in any climate.

Grain patterns are original and inimitable as they are the actual grains of trees. In one room finished with this flexible wood a unique modern effect was secured by the use of a corrugated wallboard base covered with this material.

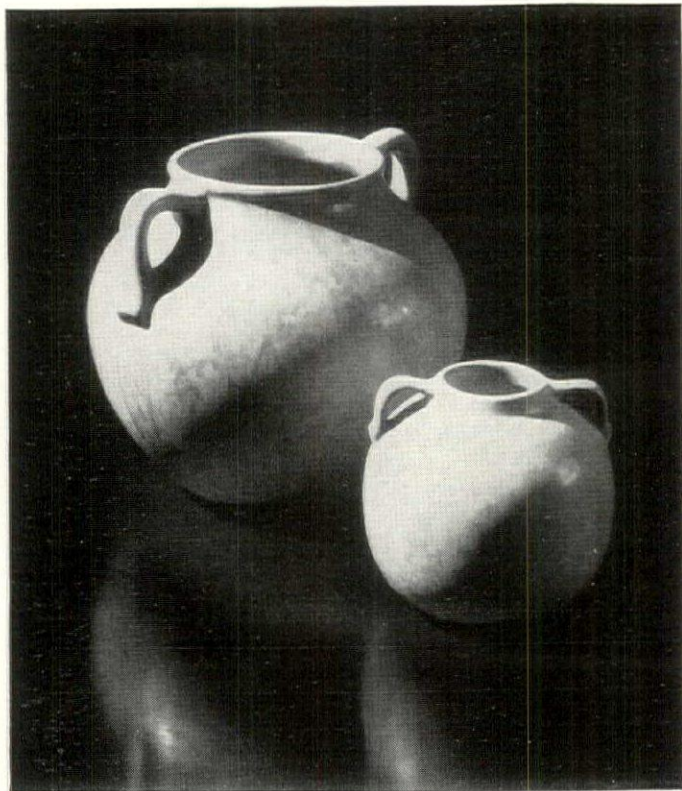
WINDOW SILENCER

MAKING a room quiet and fresh that has been noisy and poorly ventilated is the task accomplished by a silencer just perfected. To those whose rooms are on or near a noisy street this device promises all the benefits of moderate quiet and fresh air.

Designed for placement in a window where it will command the approach of noise, this silencer produces a quiet like that secured when all windows and doors are tightly closed. It gives much more ventilation than a wide open window and changes all the air in a room every few minutes without creating a draft. Easily installed in old homes, in new ones it will provide air through the walls; when so built-in, all windows would be made double and would be raised only for cleaning.

This silencer is a simple device, a flat box, five inches high, with no moving parts, and an electric fan in a circular box some six inches high. Easily set in place and connected with the nearest outlet, a switch thrown one way will cause fresh air to be

(Continued on page 118)



IN the spring of the year we bring the fascination of the out-of-doors into the home. Then we delight in forsythia sprays, pussy willows, and the gay and scented beauty of flowering bulbs.

Roseville Pottery provides the perfect setting for spring flowers. Its lovely texture and exquisite coloring blend with a wide variety of blossoms; and the wealth of designs offered by Roseville makes graceful display possible with all sorts and types of growing things.

Because of its beauty of form, texture and color, Roseville Pottery is appropriate as a permanent part of your decorative scheme. It is "livable" pottery, and has the true distinction of a charming and usable creation.

Bowls, jars, vases and candlesticks of many sizes and shapes are fashioned for you by Roseville craftsmen. You may see them at leading gift shops and department stores. Ask for them by name so you may be sure of genuine Roseville quality.

Write, and a copy of the interesting, illustrated booklet, "Pottery," will be sent you free.

THE ROSEVILLE POTTERY COMPANY, Zanesville, Ohio

ROSEVILLE POTTERY



Joseph Urban

WHO DESIGNED THE
ZIEGFELD THEATRE
AND CENTRAL PARK
CASINO

creates these
TAILORED
NET CURTAINS
for your home

EVERYTHING Joseph Urban designs is clear-cut, straightforward, vibrant with modern thinking. He uses new motifs in a new and practical way. So when we asked him to design net curtains for the windows in your home, his mind flashed naturally to the altogether new. He chose, for their decorative value, towering skyscrapers, stiffly geometric bamboo and the flight of birds.

And see what charming and wholly livable effects he has achieved. In this room corner, with its metal furniture and its modernistic radio cabinet, he has hung his skyscraper design, adding just the com-



The Skyscraper design will not only find a perfect background in a modernistic room—it is equally charming for a more conservative type. Other interesting Urban Net Curtains are Bamboo and Airplane, ten in all. Each curtain is 2½ yards long by 36 inches wide and comes in the new pongee color. You can purchase the pair from \$2.00 to \$2.50 each at most good stores.

pleting touch of figure demanded by so simple a room. And this selection was unmistakably right, for leading decorators this season are recommending "Tailored Net Curtains at every window."

If your favorite shop is not fully stocked with these designs, write us and we will see that you are supplied. Write today for free booklet, showing all the Urban designs in this new series.



CENTRAL PARK CASINO

ZIEGFELD THEATRE

ZIEGFELD STAGE SETTING

*New York's smartest rendezvous
Created by Joseph Urban*

*This is a striking illustration of the
mezzanine lobby in Ziegfeld Theatre*

*An Urban stage setting from a
recent Ziegfeld production*

If any of your friends would like to have this free booklet, just write us their names and addresses. We will see that they are supplied.



SCRANTON LACE COMPANY, Dept. 620
Scranton, Pennsylvania

Gentlemen:

Please send me, free, the interesting illustrated folder "Tailored Net Curtains, designed by Joseph Urban."

Name _____

Address _____

City _____ State _____

SCRANTON *Net
Curtains*



Gargle LISTERINE

every 2 hours

when you have a

COLD or SORE THROAT

In your mouth, a fierce and continuous battle is being waged. The forces of Health against those of Sickness. Nature against Germs—dangerous bacteria that lodge and multiply in the mouth by millions, striving to cause illness.

Surely you can appreciate the necessity of using, every day, a mouth wash fatal to germs, yet harmless to tissue!

Physicians have long urged a night and morning gargle with full strength Listerine, the safe antiseptic with the pleasant taste. For Listerine kills germs of all types in 15 seconds. No faster killing time has ever been accurately recorded by science.

Gargle every 2 hours

The morning and night gargle is deemed sufficient, in time of normal health, to keep germs under control and maintain a cleanly condition of the mouth.

But when infection is actually under way, which is the case when you have a cold, sore

throat, or inflamed condition of the oral tract, authorities urge that the gargle be repeated every two hours.

By so doing you give the body, now at lower resistance, the extra attacking force it needs to combat the ever-multiplying germs in the mouth.

Mouth germs reduced 98%

If you could look into your mouth with a microscope before and after gargling with Listerine, you would behold a remarkable transformation.

Before the gargle you would see millions and millions of germs, alive, wriggling, darting to and fro. After, you would see the same germs dead and powerless to cause harm.

Repeated tests, following the technique employed at great universities, show that full strength Listerine actually reduces bacteria on the surfaces of the mucous membrane 98%.

Take this precaution

At the first symptom of trouble in the oral

The Truth About Mouth Washes

203 mouth washes, old and new, examined, analyzed, and tested under standard laboratory methods.

94 utterly unable to kill germs in five minutes, and hence non-antiseptic. 107 unable to kill in three minutes. 143 unable to kill in one minute. Dozens of them without the slightest deodorizing effect. Others poisonous, or harmful to tissue.

Contrast their sorry performance with that of Listerine, the safe, non-poisonous, deodorizing antiseptic, which kills germs in 15 seconds (fastest killing time accurately recorded by science).

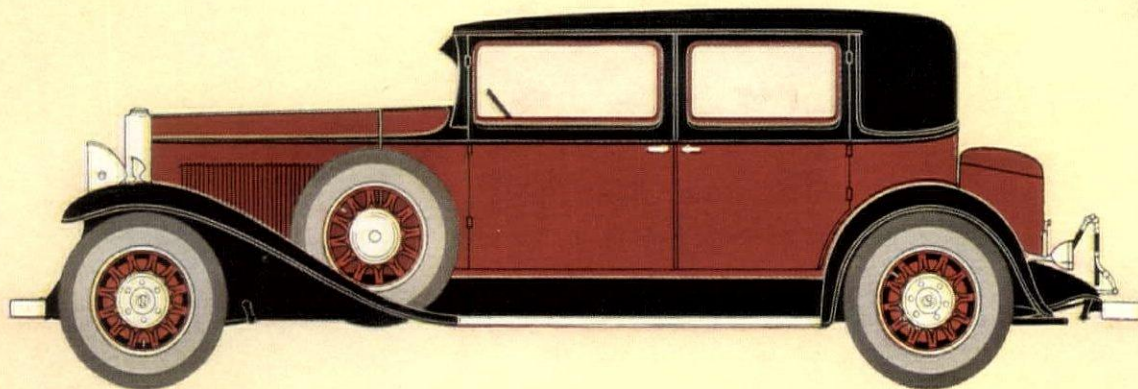
cavity, begin gargling with Listerine and consult your physician.

Do not be afraid to use Listerine undiluted. Only in this way can you get the full benefit of its germicidal action. Remember that Listerine is non-poisonous, absolutely safe to use, and actually healing to tissue. Lambert Pharmacal Company, St. Louis, Mo., U. S. A.

SAFE • NON-POISONOUS • PLEASANT TO USE
KILLS GERMS IN 15 SECONDS



It is a truth, almost without exception, that those who visit the Cadillac plants prefer Cadillac and La Salle forever after. To see these magnificent cars in the process of creation—to watch, with one's own eyes, Cadillac craftsmen at their work—is to have an enduring conviction that no higher standards could be enforced. And such, indeed, is Cadillac's oldest tradition—to build as finely as it is possible to build
CADILLAC MOTOR CAR COMPANY, DETROIT, MICHIGAN, *Division of General Motors*



Built by Cadillac, in the finest Cadillac traditions—the new La Salle is the first car of its type to be made available in the medium-price field. Entirely aside from its Cadillac-born quality and prestige, it represents unusual value—for it serves so well and so dependably that owners drive it far longer than the average automobile

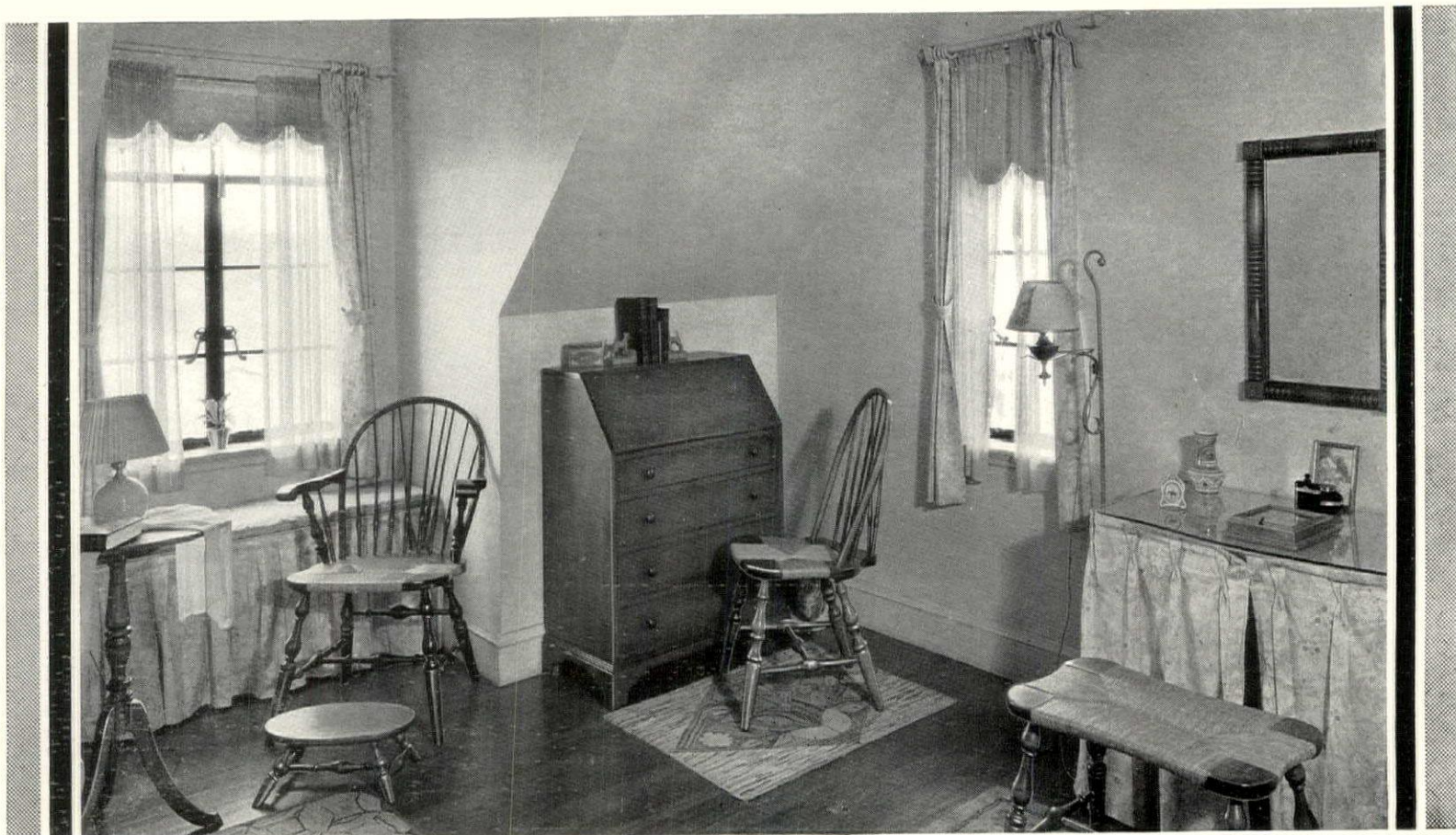
\$2195 to \$3245, f. o. b. Detroit

*The liberal G. M. A. C. payment plan is available
to purchasers of La Salle*



· L A S A L L E ·

WINDSOR CHAIRS *give* Colonial Charm *to this Bedroom*



CRICKET
2011-W

PRISCILLA
Arm Chair
2004-5

CHATHAM
Side Chair
2053-1

BENCH
2471-W



SIDE CHAIR
2063-1



HIGH BACK
WINDSOR
Arm Chair
2013-5

DOLLY
MADISON
Ladder Back
2021-1



The Tercentenary
of Windsor Charm



NICHOLS
& STONE
CO., Dept. GH
Gardner, Mass.

Please send free
copy of "Tercenten-
ary of Windsor
Charm" and nearest
dealer's name to:

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City & St.....

THE intangible element in home furnishing is the charm that makes your room radiate desirable warmth and personality.

Nichols and Stone Windsor Chairs have given this tasteful attribute to many homes for each Nichols and Stone Windsor is patterned upon a priceless Colonial original. The adaptability of the Windsor Chair to any type of home is emphasized in productions by Nichols and Stone with superior workmanship, soft warm finishes in mahogany, walnut or antique maple—and genuine hand-woven flagg seats.

May we send you our booklet "The Tercentenary of Windsor Charm", with many illustrations of new patterns in Windsor Chairs illustrating their appropriate use in various rooms?

NICHOLS & STONE CO.

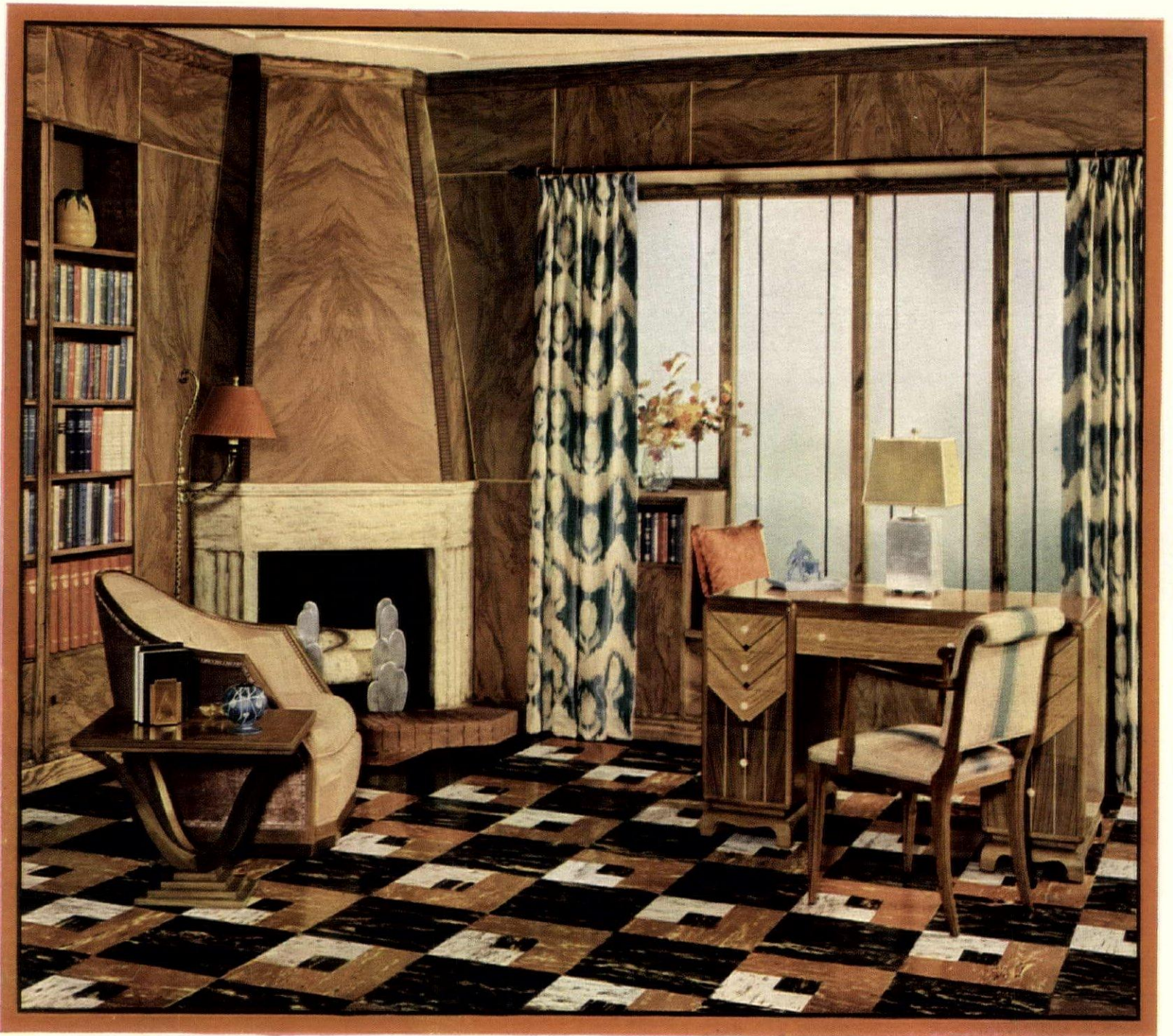
THE HOME OF

WINDSOR CHAIRS

Gardner



Mass'tts



For beauty in any room **RUBBER** is the

Obviously, *rubber*, the most modern of flooring materials, is the flooring most accurately suited to the handsome Modern Library which is illustrated here.

But in rooms of any period you can use Rubber Flooring with brilliant success. For it is *modern* in any style or period of decoration. No matter

"modern" flooring

what colors you use, or how you pattern it, Goodyear Rubber Flooring is always attractive. It is always resilient underfoot. It muffles noise. It is dirt and moisture proof. It will not scar, scuff, or stain. It will not fade-out in patches for the fresh colors go the whole depth of the material. It re-

quires no wax and is instantly bright with a whisk of cold water.

Whether your decorations are French, Early American, Modern, or what you will, Goodyear Rubber Flooring joins beauty, in every room of your house, with service and comfort. It is moderately priced — any home can afford these hospitable floors.

THE GREATEST NAME IN RUBBER

GOODYEAR
RUBBER FLOORING

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by The Goodyear Tire &
Rubber Co., Inc.

Sanitas is the cloth wall covering that can be cleaned with soap and water

THE vogue for cleanable wall coverings was created by Sanitas twenty-five years ago.

But Sanitas offers you more than a waterproof surface finished in oil colors—it is made of cloth which does not tear or crack on the walls.

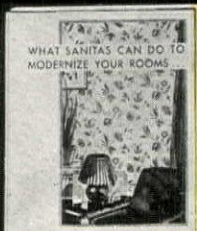
Because of this fabric strength, Sanitas is the preferred wall covering where permanence as well as beauty is desired.

The surface of Sanitas is non-absorbent, neither water, grease nor ink stains can penetrate the outer coating, hence stains and finger marks are easily wiped off with a damp cloth, or with soap and water if necessary.

See the Sanitas Sample Book containing styles for every room. Your decorator will gladly show it to you.

Look for the Sanitas trademark on the back of each roll. If you have any difficulty in securing genuine Sanitas, write us.

THE STANDARD TEXTILE PRODUCTS CO.
320 Broadway Dept. 21 New York



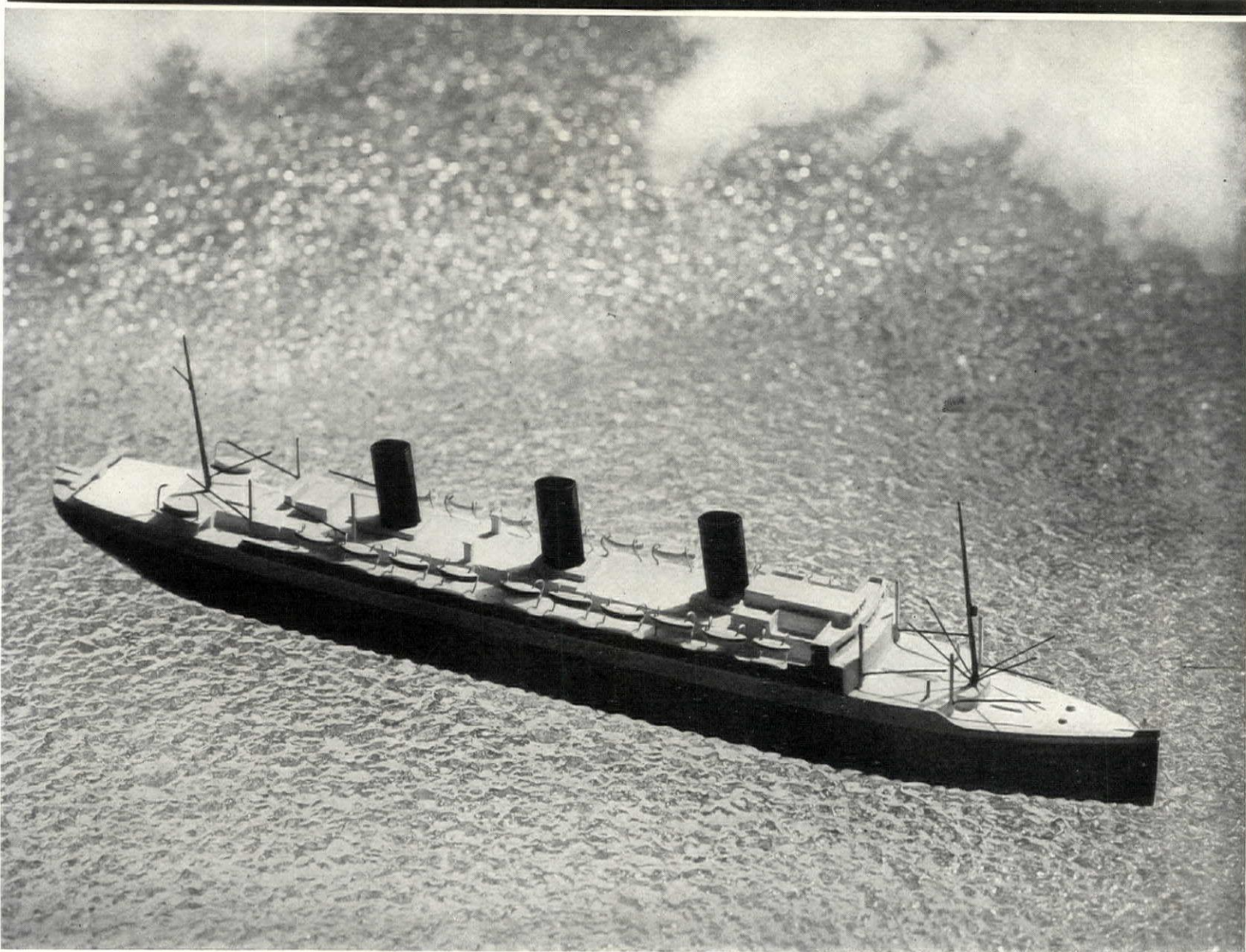
Write for Booklet and Samples

Booklet in colors offers many helpful decorative suggestions

SANITAS

MODERN
WALL COVERING

At 4:30 P. M. on MARCH 27th
the ATLANTIC'S MOST POPULAR SHIP
sails once more with a distinguished company



THE Île de France sails. Even along the case-hardened waterfront you sense a thrill. Out of Pier 57 into a bright Hudson evening slides the ship that last year averaged from New York more first-class passengers per trip than any other afloat.

Distinguished names aboard—perhaps an eminent musician, a great scientist, a clever editor—brilliant names from the society pages—a new Hollywood star—diplomats—international bankers—to total a ship's company of travelers who are bored only by something second-rate. That, of course, is why the Île de France has always a distinguished company of guests, pointing for Plymouth and Havre, relaxing for five days into the utmost comfortable luxury.

These interesting, gay folk will once more challenge a notable chef to match the best of any Paris restaurant or London club: he will

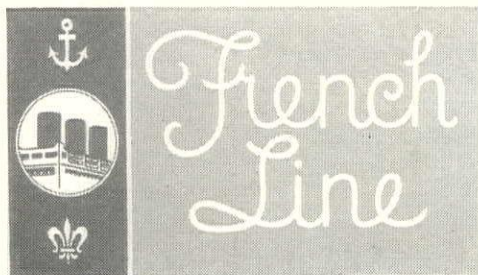
outdo himself. They will command vintages hard to find—and get them. They will once more wish (a little plaintively, perhaps) that they might steal and carry home those exemplary stewards and stewardesses, who answer needs almost before those needs are put in words. Their brilliant garments will tincture the *décor* of an amazingly interesting and thrilling example of modern decoration—which the Île de France is. Accustomed to the best

in life, they will be completely at home.

Every ship, from time to time, must carry one or two of the Olympians whom the smart world calls "important"; their individual presence is unimportant. But when voyage after voyage so many, many of them sail, automatically, on the Île de France, they pay the complete tribute to the luxurious atmosphere and extraordinary hospitality of the ship—and of the line. And they point you the way. For these intelligent people evidently know how much more of the good things of life may be bought for the price of a cabin on the flagship of the smart world.

Your French Line representative will show you, very specifically, how their experience may be yours; he will book an excellent cabin reservation for you *promptly*.

FRENCH LINE, 19 STATE ST., NEW YORK CITY
or French Line Agents, everywhere.



Beauty Blossoms Forth and Never Fades—with Salubra

In Salubra Pattern No. 31634, a colorful vine climbs a lattice of light tan on a cream background. Just one of hundreds of Salubra designs to harmonize with any type of interior—Period or Modern. Furniture by Charak.



NOTHING will add so greatly to the charm and attractiveness of your home as to redecorate your walls with Salubra—the beautiful imported wall covering which offers you hundreds of fascinating patterns and color schemes created by Europe's foremost designers.

Even the surface texture of Salubra is different from other wall coverings. It gives a rich artistic appearance which cannot be duplicated in any other way. Salubra is really "paint-by-the-roll"—

specially compounded oil colors on parchment paper.

No wall treatment is more distinctive and luxurious—yet Salubra is far more *practical* than ordinary wallpapers. It is fadeless and washable. When Salubra becomes soiled its original freshness and beauty can be restored with brush, soap and water. Ask your architect or decorator about Salubra or write us direct. FREDERIC BLANK & CO., 230 Park Ave., New York, N. Y.—or 24 N. Wabash Ave., Chicago, Ill.

Salubra

REG. U. S. PAT. OFF.

WON'T FADE

WILL WASH

Informal French Houses

(Continued from page 89)

one thousand counties. It is the deft touch which produces melodious music, not the force of the impact—and in house-making you have only to seek French examples for proof. The illustrations show various means of enclosing a part of the plot immediately surrounding the house within a wall, low or high, or a hedge. Instead of having to pay for the landscaping costs of an entire site at the outset (when the building contractor's unpaid balance is likely to be already too high), it means that the house itself can be made to look a part of the plot. Such is the case of the house shown at the bottom of page 86 and at the top of page 87, while the upper drawings on pages 88 and 89 both indicate inexpensive means of planting around the house itself which will make it look "as though it belonged".

Ideally the architect and the landscape architect will confer and collaborate from the very earliest stages of the planned house. Even though the owner may not consider the services of the latter an actual necessity for such a small operation as a house, it usually is one of the best investments which can be made. No house is as agreeable to live in or as easy to sell profitably as the one which has charm and a sense of being rooted to the soil—and no house barren of judiciously planted shrubs and trees, vines and flowers is likely to have those qualities. Also there is the consideration of what and where to do the planting, and how much can be bought for the smallest sum. A landscapist can lay out a progressive schedule which will create the best effect at the end of each stage for the least outlay, an item which automatically saves more than the cost of the fee in the long run.

COBBLE STONES

Apropos of forecourts is the suggestion of many French ones which use cobble stones, some large but generally small. These are shown on page 89, laid out with divisions of flagstones around the outer perimeter as well as intersecting the field. Anyone who has seen cobble stones used in this manner, with tufts of grass growing between them, or occasional clumps of flowers, knows how engaging the effect can be. Particularly is it valuable on a slope where grass is apt to be washed away, or for building up wide terrace steps of something other than solid, unsympathetic masonry.

As to materials, the locality will determine what is most readily available, and one's budget can make the choice from that point on. If the house is to be plastered on the exterior—the least expensive means—French precedent offers many suggestions both in refreshing color and form. The drawing at the bottom of page 89 is only one of

many possibilities. If it be possible to use stone, or stone in conjunction with plaster, there are many Breton-inspired motifs in order, such as are shown at the top of pages 88 and 89. However, in any house, particularly the small or medium sized one, it is a good rule not to change the materials frequently or the whole will take on a restless and unrelated appearance.

Similarly with the selection of motifs—if one try to wed the adapted forms of Gothic, *François Premier* and the Directoire, it will be extremely difficult, if not impossible, to arrive at a homogeneous result. Half-timber work has purposely been omitted from all drawings for it represents a type of construction which is not natural to modern means of building. Merely to veneer the exterior of a wall with flat strips of wood which sooner or later may warp off, is too obvious an insincerity to require further comment. If the timbers be genuine and serve to support and frame the wall, half-timber work becomes permissible. But even then it seems a bit too archaic—unless the balance of the house is to be carried out in the same spirit.

THE REAL SPIRIT

Nothing is so unhappy to behold architecturally as the house which repeats in its every detail, "*Je ne parle pas Français*", unless it be the house which is stringing together a number of French words without meaning. The upper left drawing on page 86 is an example. Quite naturally it is not to be expected that a house over here will be French in the manner of the Abbaye Sainte-Croix, (upper right drawing on page 86) but there is every reason to hope for discriminating taste which will draw on the rich heritage of France in order to make for a more imaginative, more colorful, more worthy house, and that it will discard all details and features which do not contribute to the general good of the ensemble. Also, that all insincere imitations of sagging roofs, stone fragments cropping out of an otherwise unbroken plaster wall, wanton mixtures of several kinds of materials which look like a poor stage-drop—that these and their ilk will be known as false and unworthy of emulation.

If one has a trunk of valued ancestral possessions, on looking them over one does not remark, "These buckles are tarnished, I will therefore see that my new ones are also tarnished; this coat is torn, I will tear mine; this hat is bashed in, I will bash mine in—for in so doing I am following in the footsteps of my ancestors, and the world in seeing me so accoutred will recognize me as an aristocrat of a proud bygone day". Neither should one commit such folly in selecting the garb for his house.





GRANADO TEA SET. Five pieces \$450.00; with Tray \$850.00

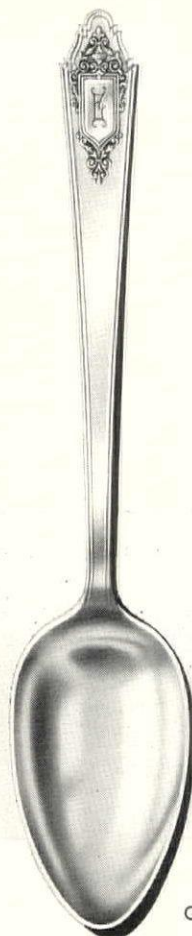
The "FAMILY SILVER" of Coming Generations

HAVE YOU EVER thought that your silver is a standard by which you and your family are judged . . . today, and in years to come? Your silver is Sterling, of course. For in the true sense only *STERLING* is silver. But is it a mismated collection of nondescript patterns, really belying your taste and your family's true position?

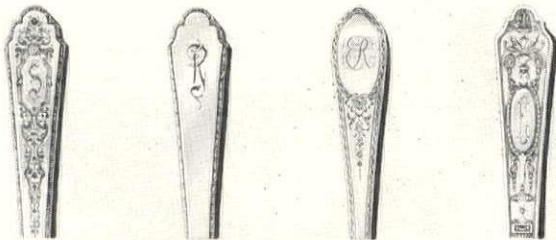
There is a jeweler near you to show you, in "TREASURE SOLID SILVER," family Sterling worthy of your home, from modest sets for young couples to complete services, including Tea-ware, Candle Sticks, Bowls, all in the same matching design. And you will be delighted with

TREASURE Silver. There is such a lovely array of designs to choose from! While all are smartly fashioned in the spirit of today, each is a design of enduring beauty, based on some lasting decorative style.

When you purchase your TREASURE silver, no matter how modest is your first selection, you have immediately added to your estate . . . something that, in later years, your children and their children's children may refer to, with no little pride, as "my family's silver." That silver will always reflect *your* discrimination, your instinct for graceful living and your love of worth-while possessions.



GRANADO



MARY II • WILLIAM and MARY • EARLY AMERICAN • ADAM STYLE
A few of the other patterns made in Treasure Silver

ROGERS, LUNT & BOWLEN CO.
Greenfield, Massachusetts

Gentlemen: Please send me a copy of your new "Treasure" portfolio, The Modern Way to Choose Your Silver.

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"Treasure" Solid Silver



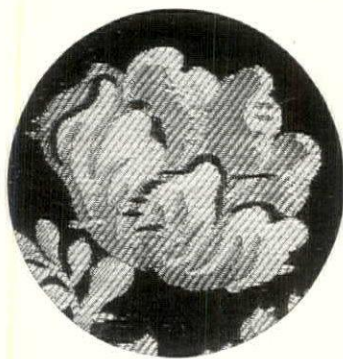
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If the lovely colors you
prefer seem too fragile to
endure, remember, every

ORINOKA SUNFAST DRAPERY

is guaranteed not to fade



TIME cannot touch these lovely colors . . . nor sun nor wind nor water. They are as enduring as the very fabric into which they are woven. However subtle, or brilliant, their tints . . . the cool pale green of Marie Antoinette, the rose and gold of a fine Directoire damask, the carnival colors of Sardinian cloth . . . they will not fade.

And Orinoka draperies are not only fast to sunlight. They are washable . . . from the heaviest brocatelle down to the sheerest gauze. You, the purchaser, are assured of this by the famous Orinoka guarantee attached to every bolt: "These goods are guaranteed absolutely fadeless. If the color changes from exposure to the sunlight or from washing, the merchant is hereby authorized to replace them with new goods or refund the purchase price."

In the Orinoka booklet, "Draperies and Color Harmony," are shown twelve rooms, period and modern, planned and executed in color by a well-known decorator, using appropriate Orinoka Fabrics. These same fabrics, you may see in all their real beauty in the drapery departments of leading stores. Ten cents in coin or stamps will bring you the booklet and the name of store nearest you. Use

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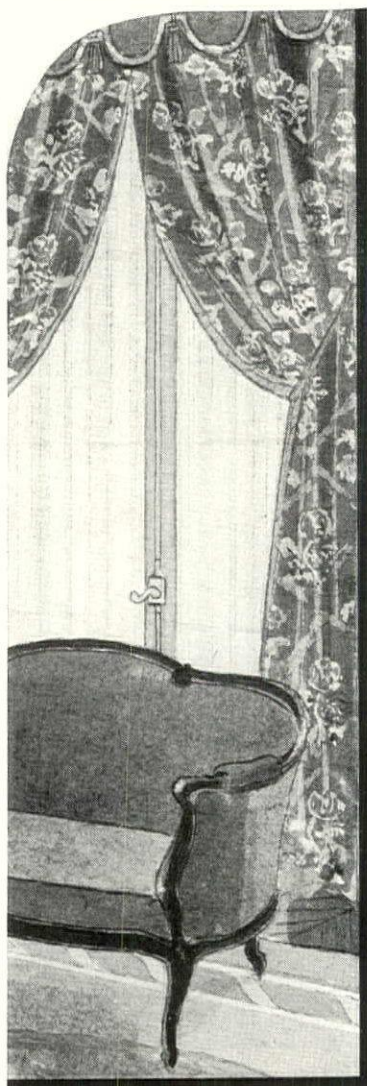
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Gentlemen: I should like a copy of the Orinoka booklet, "Draperies and Color Harmony." I am enclosing 10 cents.

Name _____
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An interesting treatment of French windows, as shown in the Orinoka booklet

Review Of Water Supply Systems

(Continued from page 66)

Water requirements for domestic use can be approximated as follows:

Filling lavatory	1½ gallons
Filling average bath	30 "
Flushing toilet	6 "
Shower	30 "
¾" garden hose with nozzle	275 to 300 gals. per hour.

Lawn sprinkler

120 to 300 gals. per hour.

A company, which we will call "A", claims fifty years of experience behind the splendid models it manufactures for use where the vertical lift of the water does not exceed 25 feet—in shallow wells, cisterns, dug wells, springs or running brooks. The pump capacity ranges from 4 to 50 gallons a minute, though pumps with up to 100-gallon capacity can be furnished if needed. The construction of these pumps is such that the cost for repairs or replacements due to accident or wear, is reduced to a minimum. Quiet operation is another feature. The capacity of these systems has been increased to meet today's increased demands.

The electric models are self operating in all respects. They may be secured all assembled, with motor, automatic switch "V" belt drive, air changing device and fresh water outlet. A complete extra set of packing for the pumping units may be had at nominal cost.

They also manufacture models which operate automatically without the use of a storage tank. These are splendid where the water is wanted direct from the source of supply. If, at a future time, increased storage is desired, a tank can then be connected at any point in the discharge line.

WITH FEW PARTS

Another pump manufactured by this same company is a single cylinder, double acting power piston pump with enclosed crank case put out to meet the demands for a pump with as few working parts as possible. The four sizes in which this is made provide a capacity range from 9 to 50 gallons per minute.

This organization advises that its belt driven units are quiet and somewhat lower in first cost but they are not recommended for damp locations. Their silent chain is durable and smooth in operation, while the direct geared drive is more noisy but sometimes preferred—especially in the larger sizes—as it does not require the lubrication needed by chain drives.

A popular outfit is that manufactured by "B." This system can deliver from 2,000 to 5,000 gallons of water each 24 hours if needed. And at a slight additional cost, cool, fresh water can be obtained direct from the well without entering the tank.

The pumping unit—consisting of direct connecting pump and electric motor—may be mounted on top of the storage tank out of the way of dust and dampness. Or, in another model, the pumping unit may be lower, even at considerable distance from the tank if conditions necessitate this. Where a larger storage capacity is required, horizontal tanks can be had holding up to 940 gallons, or a complete system may be installed which will

hold 15 barrels of water under pressure ready for instant use without even starting the pump.

The principle upon which the pumps of "B" operate is new. There is only one moving part—a wheel that spins away year after year without even touching the surrounding metal. Long years of satisfactory service are built into these fine pumps with their excellent motor construction and vital parts of cast bronze. Where electric power is not available, gasolene engines are substituted for the motor. Or the pump may be equipped with a pulley and driven from some other power source. It is claimed that only about one-half the usual amount of current is needed to start this pump and there is no pounding or hammering during operation. These devices, too, may be used on springs, lakes and streams as well as with cisterns or shallow wells.

IN VARIED TYPES

Company "C" has built up a reputation through the correct design of its pumps and its high standard of workmanship and materials. Its self-priming suction pumps are built in two types, each type in several capacities. In the unit systems pump and tank form a self contained unit. In the assembled systems the pump and tank are located independent of each other. The electric pumps are wired through a hand switch which may be used for starting and stopping the pump. Or complete automatic control may be preferred. Gasolene engines must be manually started but may be automatically stopped. Water-direct-from-the-well attachments may be incorporated in the plan if desired.

This firm also furnishes a combined piston and plunger pump of simple and rugged construction, suitable for pumps of medium size.

Company "A" manufactures—in addition to the shallow well pumps previously described—splendid deep well equipment furnishing 100 to 3,600 gallons of water per hour for varying depths of wells. Because of the simplicity and ruggedness of construction, together with the fact that the gears run constantly in an oil bath, this deep well-head will give long and satisfactory service with a minimum of attention and operating expense.

"A" classifies its motor driven deep well pumps into "units," "outfits" and "systems." So it is possible to readily determine the right size of motor needed to secure the required water capacity from varying diameters and depths of wells. A frost-proof settlement which places the discharge head below frost level, may also be had in this equipment.

Where installation space is limited, the motor may be mounted on top of the pump, and swung easily back if for any reason the plunger underneath must be withdrawn. Or other models allow the tank to be located at any convenient spot away from the pump, which must of course be right over the well. As with its shallow well systems, this company makes equipment either for pumping into a stor-

(Continued on page 118)



VOGUE'S BOOK OF SMART SERVICE

For the hostess who wishes to have her table set in a beautifully arranged design . . . for the mistress who expects the finest work from her servants . . . for the charming lady who requires distinction in every detail of her service—Vogue has just published *Vogue's Book of Smart Service*.

This book is a careful study of all those details of management that go to make up the well-run household.

The division of labor among servants of a large house . . . and of a small house . . . suitable dress for servants for morning, afternoon, and evening . . . suggestions for efficient house-cleaning, bed-making, table-setting . . . the care and polishing of silver . . . the correct form for written orders to servants and for letters of recommendation—here are some of the important points discussed in *Vogue's Book of Smart Service*.

Whether your establishment is staffed by a whole platoon of servants, or a single maid-of-all-work . . . *Vogue's Book of Smart Service* will prove to be a valuable reference book and guide.

It would be wise to have several copies—one for yourself and one for each of your servants. Send for them to-day.

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Are the Walls of Your Home IMAGINATIVE?

In the four walls of your room lie a hundred decorative opportunities! Are you making the most of them? Since the first "painted-print" made its appearance . . . papering the spacious halls of a seventeenth century manor . . . imaginative wall-treatments have marked gracious homes. Papers set in panels, papers used as borders, papers with wainscoting . . . their possibilities are infinite.



Today Strahan has reproduced old wall papers with all their traditional charm, has created, too, new patterns in the modern mood. Each Strahan design . . . chosen with the discrimination that has distinguished this name for more than forty years . . . will add a final note of beauty to your decorative scheme.

*Ask your dealer or decorator
to show you Strahan papers.*

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ESTABLISHED 1886

SHOWROOMS:

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FACTORY . CHELSEA MASSACHUSETTS



No. 6033 "Louis Seize". Authentic in every detail, this reproduction of an old French design is an exquisite background for the period room . . . and a happy choice for feminine boudoirs.

Review Of Water Supply Systems

(Continued from page 116)

age tank or for conditions which do not require large storage capacity.

Company "C" also makes deep well equipment, run by electricity or gasoline, and embodying the same skilled construction as their shallow well pumps. They offer a choice of sizes with capacities from 120 to 1950 gallons of water an hour. The principle on which their deep pumps are built "cushions" the motion in the pump, lessening the vibration of the rods which extend down and operate the cylinder in the water and reducing the strain on the moving parts, which results in excessive wear and noisy operation. The consequent smooth running, absence of vibration and reduced friction make for ease in starting, quiet operation and high efficiency. The electric pump may either be hand controlled or automatic, the gasoline type hand starting and automatically stopped.

Moving parts in these pumps are mounted on parallel upright steel columns which withstand the shock and vibrations better than a cast-iron frame. Other advantages are the reduced weight, lighter parts, the ease of assembling, and accessibility. Two types of cylinders are used—one for wells of considerable depth, the other where the greatest possible capacity is desired from a well of given size. Frost-proof attachments and drinking-water-direct-from-the-well features can also be specified.

Another organization, which we will designate as "D," sends to all prospective purchasers of their equipment, information blanks to be filled out, from which complete specifications and detailed costs of either a gasoline or an electric powered water supply will be submitted. The estimates are quoted either on material or on the complete installation.

A unique system put out by this company provides combination electric and gasoline power, thus assuring continuous service in case of emergency. Either power may be had alone, if preferred. Or one of the company's other equally good models may be recommended by their experts as more suitable to local conditions.

Many refinements of technical con-

struction mark these fine machines, such as accessibility of the working parts and easy regulation of the pump capacity to the flow of water. Storage tanks in varying sizes are built to architects', engineers' and underwriters' specifications. They are tested to an air and water pressure 100 per cent greater than the working pressure before shipping, and are coated inside with a special metal-preserving, non-poisonous enamel paint to prevent corrosion.

This same company highly recommends a type of equipment for the deep well which is somewhat newer in home use though it embodies a principle long used in industrial machinery. Rotating wheels take the place of the plunger and the water is raised by centrifugal force. Noiseless operation, long life and great satisfaction more than offset the somewhat greater first cost.

Company "E" recommends its deep well systems, not only where the water always lies below the 22-foot level but also for wells less than 22 feet to the waterline but where the level may fluctuate according to season. Their sales and engineering departments stand ready to advise on planning installations and selecting the proper equipment.

A departure is made from the standard design, eliminating connecting rods and cross-heads, giving great strength combined with simplicity. As the pump is small and compact, installation is possible in limited spaces or close to walls and very little head room is required. A fresh water take-off may also be supplied.

"E" will furnish the power head alone or a complete water system, supplying from 109 to 432 gallons per hour while the heavy duty equipment made by them will provide from 400 to 7700 gallons per hour.

In choosing the water system, a highly individualized problem is presented. For the requirements and water conditions vary in almost every case. But for every situation a satisfactory system can be provided and the manufacturers' representatives are the best advisors in solving this all-important contribution to modern home comfort.

Recent Developments In Building

(Continued from page 110)

drawn in or, thrown the other, will cause stale air, smoke and odors to be exhausted. Depending for protection upon secrecy rather than patents, the inventor does not tell us just how it is that his silencer operates. Suffice it to say that a very unusual hole freely passes air in and out, trapping the noise. Efficiency of the unit has been amply established by long testing.

IMPROVED OUTLETS

IF you are considering modernization of electric service, or if you are tired of searching for holes when

trying to insert a plug in a convenience outlet, you will be interested in the single and double outlets designed with a finding ridge which finds the slots for the plug prongs. When the prongs are pressed on the curved depression of the face of the outlet, they are guided along right into the slots. And there is also a locking ring to be used for attachment to single outlets. It makes a permanent connection between cap and receptacle; any twisting or pulling of cords will not pull them apart. The cap is very easily locked or unlocked by a slight turn of the swivel bracket.



An original Louis XV Boiserie Room on display at our Studio. Chair (right) signed by Malot. Commode signed F. Foliot, Circa 1750. Antique Louis XV Sofa is covered with tapestry of the period.

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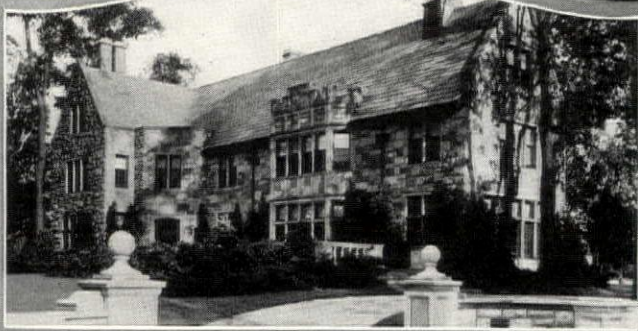
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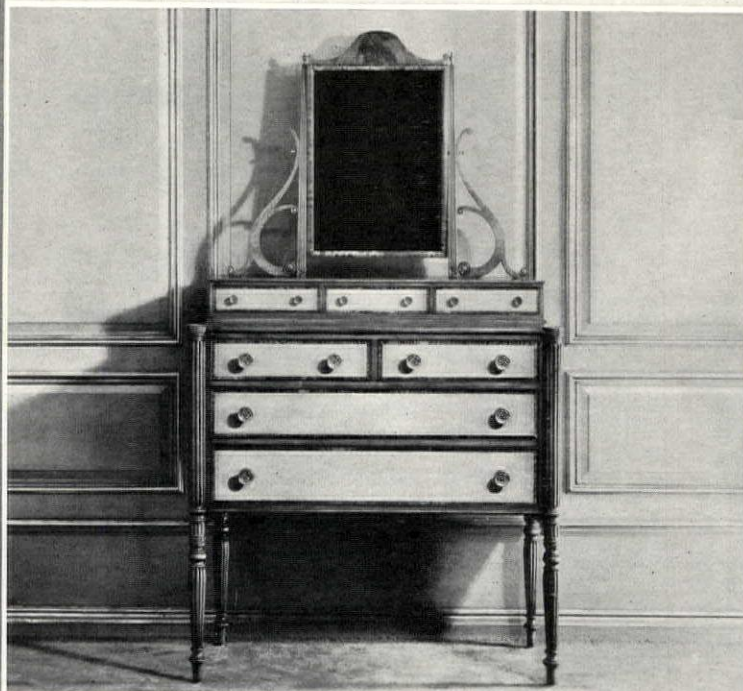
with *Colorful* Natural Stone

Blending its glorious autumnal hues with the enduring grandeur of virgin stone, Briar Hill *Golden Tone* Wall Facing artistically combines permanence with individuality and charm . . . The beautiful all-stone residence illustrated, is a striking example of the distinctive effects which may be achieved with this matchless building material . . . Just visualize your "dream" home enriched and distinguished with the warm, friendly colors of this natural stone. **C.** Write for our free Ashlar Wall Facing Booklet HM, showing this sandstone in its own beautiful colors and picturing numerous attractive Briar Hill homes. Blue prints cheerfully estimated without obligation . . . you will be surprised at the moderate cost of this exquisite wall facing.

THE BRIAR HILL STONE COMPANY
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WRITE FOR THIS FREE BOOKLET

SHAW FURNITURE may be had of the leading dealers and decorators throughout the country, and seen in an extensive display in the Shaw Showrooms.



A delicate Sheraton Dresser with swing Mirror of mahogany and maple with rosewood inlay.

SHAW FURNITURE COMPANY

Specialists in Furniture Made to Order

SHOWROOMS and FACTORY
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NEW YORK SHOWROOMS
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COME see what's "in the wind" to make home life more entertaining!

SHOPPING at this famous establishment is not only a gay adventure but a practical demonstration as to where to find the cleverest of the season's domestic and imported novelties for the home. Home entertaining is the vogue these days and, of course, one wants to be as well equipped for the added pleasure of one's guests, as for the comfort and convenience of the family. Come and see "what's in the wind." Or, send for special folder. May we put you on our mailing list?

PORTABLE SEWING CABINET—30"x15"x3" closed. Opens up like a two-piece screen and keeps spools, etc., in perfect order. Delightful wall paper designs. Frames in red, green and ivory \$9.50



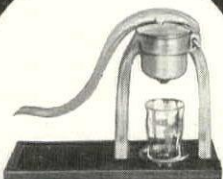
FOLDING POKER TABLE TOP—mahogany finished, fits over the top of the ordinary card or bridge table and converts it instantly into a real Poker Table. Green cloth playing surface. Places for eight players. \$19.75



BRIDGE CHAIR—at last a really comfortable, good looking, folding chair which can be opened and closed with ease and supports generously proportioned guests safely! Mahogany finished frame, tapestry upholstered . . . \$10.75



PRESS-OR—a speedy and practical fruit juice extractor. Made of polished stainless steel and aluminum. Easily cleaned—cannot break—uses no electricity. Extracts and strains in one operation. Your morning glass of orange juice in 8 seconds flat \$15.00



When ordering send check, money order, C. O. D. instructions, or Charge Account references. Delivery prepaid within one hundred miles of New York City. To points beyond, charges collect.

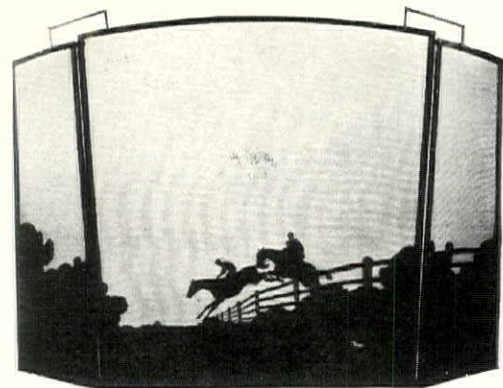
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Volunteer 5-4700

'The House of Fine Housewares'

The thrill of the chase is captured in a three-panel fire-screen on which two horses are taking a difficult jump. Designed by Thomas Wood



The Return Of The Wrought Iron Silhouette

Maud Robinson

THE present interest in silhouettes and decorative metal has brought on a revival of the ancient art of hand-wrought iron pictures. In olden days iron was used to show the coat-of-arms or to express pictorially the profession or trade of the man whose portal or fireplace it adorned.

Nowadays metal craftsmen draw original designs to be carried out in silhouettes cut from sheet iron and used for decorative purposes. The choice of subject matter varies through a wide range of appeal and suitability. It may be purely decorative or it may, as with those of the past, be definitely illustrative of an activity or an idea. The big game hunter, the fox and hound enthusiast, the bird hunter, and even the golfer, find their sports represented. The adventurer, as well as he who only dreams adventures, finds a satisfying silhouette. In a word, they bring to life a man's avocations, his hobbies and make his dreams a bit more real.

In spite of the fact that iron is supposed to be man's metal, it is frequently used for decoration in a woman's room. A woman whose hobby is her garden ordered iron silhouettes to be placed over the doors of the different rustic tool houses on her estate. Each one represents a different type of implement kept within. A Victorian scene of a cabriolet, a gallant and a crinoline belle is a design recently created by the Florentine Craftsmen for a woman's summer living room, of the type where Godey silhouette prints would usually be employed. An amusing cat wall sconce

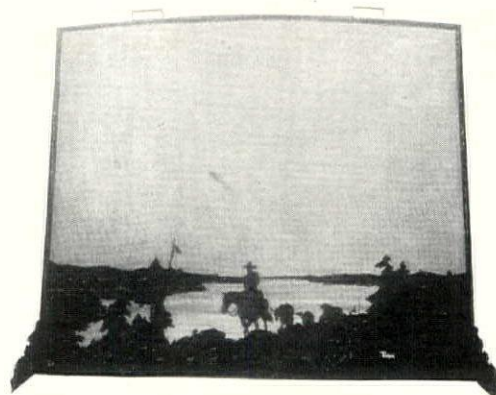
decorates, along with other gay animal silhouettes, the walls of a young child's playroom.

The favored way of placing these iron pictures is over the fireplace. Most of the newer types of hearths lend themselves very well to this idea, as they have flat sections over the mantel. In place of the more usual picture, tapestry or sheet of mirrored glass that would be used here, one of these silhouettes forms a charmingly different substitute. Outstanding beams and flat pillars in country houses lend themselves well to such decorative treatment; also spaces over doorways and bare wall sections, generally in the type of room where some more definite form of wall decoration than the usual picture seems indicated.

While the silhouette may be tinted in polychrome fashion, the present tendency is to leave it in the natural color of the metal. White plaster walls make a particularly good background to bring into sharper relief the strong, dark outlines of the iron picture.

The informal room, the library and the man's study are specially suited to this type of decoration. And in all rooms devoted to games and sports—gun rooms, locker rooms, etc.—these iron scenes are both appropriate and effective. In this connection is illustrated an overmantel decoration using as its motif a duck-hunter with his dog and the two birds he has raised. The thrill of the chase is captured in a fire-screen on which two horses are taking a difficult jump. A Western round-up ornaments the fire-screen in

(Continued on page 142)



The flames become part of the picture in this sunset scene in iron for which the embers make an appropriate background. Thomas Wood



MORNING, noon and night—every minute of the 365 days in the year—a General Electric Refrigerator pays definite dividends on every dollar of its purchase price.

Cash dividends in food-saving. *Health* dividends in preserving the wholesomeness of milk, meats and vegetables. *Time* and *labor* dividends for busy housewives, who must plan and prepare a thousand and one meals each year.

Solely on the basis of economy, you can afford a General Electric Refrigerator. Clean and dependable as electric light, you may entrust larger quantities of perishables—bought at favorable prices—to its care. You make fewer trips to market. Scores of easily prepared low cost "left over" dishes are always available. Finer,

more wholesome meals are served at a saving. Small operating cost is inherent in General Electric design. The Monitor Top—sealed in ageless steel and permanently oiled—is proof against air, moisture, rust. Its small, quiet motor runs at a cost of but a few cents a day. So efficient and trouble-proof that you can forget what "makes it go."

Invest your refrigeration money where it will bring the greatest possible returns. A very small down payment puts a General Electric in your home. Easy terms make its savings immediately possible.

Write us for the latest issue of our magazine, "The Silent Hostess." It contains valuable information regarding proper food preservation and its relationship to health. Address, Section K3, Electric Refrigeration Department, General Electric Company, Hanna Building, 1400 Euclid Avenue, Cleveland, Ohio.

Depend on these everyday SAVINGS

Monitor Top—Hermetically sealed like a MAZDA lamp, the "On Top" refrigerating unit is permanently oiled and protected against air, dirt and moisture.

Accessible Temperature Regulator—A mere twist of the easily accessible dial hurries the making of ice cubes and frozen delicacies.

Multi-Temperature—4 different kinds of temperature essential to good refrigeration:

1. **Super-Freezer** provides fast freezing temperature for making ice cubes and desserts. Porcelain lined, inside and out, sanitary and easily cleaned.
2. **Chiller** approximates freezing temperature—provides an extra cold storage compartment to congeal salads quickly and hold refrigerator pastries. Used also as a de-frosting tray.
3. **Cabinet**—dry, even temperature below 50°, for proper food preservation.
4. **Vegetable Pan** for moist, cold storage of perishable vegetables.

Simple Installation—Plugs into any convenience outlet, like an electric fan or iron.

Lower Operating Cost—General Electric design permits a smaller motor, consuming far less current.

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DOMESTIC, APARTMENT HOUSE
AND COMMERCIAL
REFRIGERATORS
ELECTRIC WATER COOLERS



GENERAL ELECTRIC
ALL-STEEL REFRIGERATOR



Eugene Schoen, Architect. Carpet furnished by F. Schumacher & Co.

This actual color photograph, showing the library of a home on Park Avenue, New York City, gives you some idea of the beautiful, unmarred surface of Collins & Aikman Carpet. All sorts of individual color patterns are possible with this new idea. You can even design your own carpets!

MIRACLES STILL COME TO PASS!

THIS NEW CARPET IS

seemingly
seamless

THIS IS NEWS—not only of a new carpet—but of a new idea in carpets. An idea so revolutionary that all preconceived notions about carpets are changed overnight. For the new Collins & Aikman Carpet, selling at the price of ordinary narrow carpet, is *seemingly seamless* when laid!

To avoid the marring effect of stitched seams, broadloom carpet, until now, has been the choice of “the fortunate few.” But the use of carpet woven on a wide loom has been limited because of the added cost. Now comes the new Collins & Aikman Carpet, apparently seamless when laid in a room of any size or shape—and the cost per yard remains as low as that

of narrow-width carpet with unsightly welt-sewn seams.

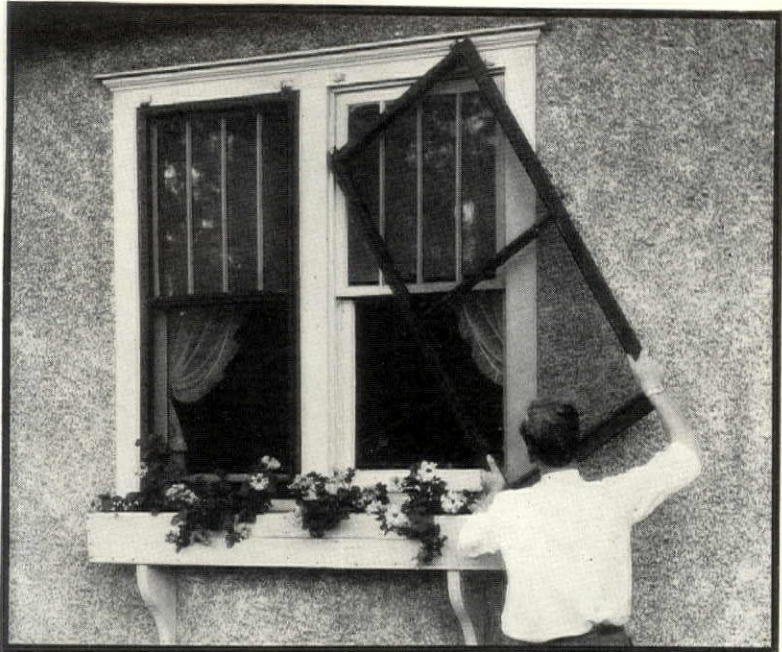
Collins & Aikman Carpet comes in 54-inch widths. It is a beautiful pile carpet, with a new kind of back. The back, composed of a resilient material, locks the pile, prevents it from pulling out, and allows the carpet to form its own selvage when cut. No binding is needed. It is laid by pushing edges together, and joining them on the back with a tough web of strapping. On

the face, the thick pile meshes, and covers the place where one width meets another.

Even in these times, we *can* conceive of people who wouldn't be excited over the money to be saved by this idea. If there be such, they will be interested in Collins & Aikman Carpet for the reasons that have made decorators receive it with enthusiasm. Individual color combinations! Special designs, made up to harmonize with the decorative scheme of a room! Consult your decorative adviser, who probably knows all about Collins & Aikman Carpet. Or write for our free illustrated booklet—which will give you some carpet-ideas you never dreamed of before. . . . Address your letters to Collins & Aikman Corporation, 25 Madison Avenue, New York City.

COLLINS & AIKMAN CARPET

SOLD BY LEADING STORES AND INTERIOR DECORATORS



This method of window screening is OUT

If you love your home — if you want your house to look its best, you'll let nothing mar the beautiful, slender lines which the architect has so harmoniously worked into its window designs.

Rolscreens of Pella obviate the unsightliness and light obstruction that are unavoidable with wide-framed, flat-type screens. Installed on the inside of windows, they are not only inconspicuous, but their innumerable conveniences and economical long life make them really amazing in their appeal.

Rolscreens of Pella roll up and down—like a window shade
They're permanent . . . there when you want them; out of the way, on hidden rollers, when you don't.
A touch of the thumb releases the spring, and the screen rolls up—automatically.

No obstructed vision when windows are closed. No troublesome taking down screens in the fall. No storage space required. No messy dusting, painting, repairing, matching and putting up screens in the spring.

No gathered dirt on them—to be beaten against windows or to soil breeze-blown draperies . . . Rolscreens clean themselves in rolling.

No breaking mesh or rust-made holes. Rolscreens are made of special electro-plated "Alumina" wire-cloth, with reinforced selvage, that will far outlast their TEN-YEAR GUARANTEE.

No sagging or bagging; no insects can get in at the edges . . . Rolscreen mesh is locked in at top, bottom and sides. Even a heavy accidental blow can do no harm—it merely disengages the lugs from the guides; and the lugs instantly go back in place when screen is rolled.

Resolve now that this year Rolscreens shall beautify your home and bring you comforts and conveniences you've never before enjoyed. We've told only half the story here. Send coupon below for Rolscreen booklet. It'll bring you complete information—and enable you to understand why their fifteen patented features make Rolscreens of Pella by far the most beautiful, practical and economical rolling screens you can buy. Any size or type of window—in old or new home—can be quickly Rolscreened.

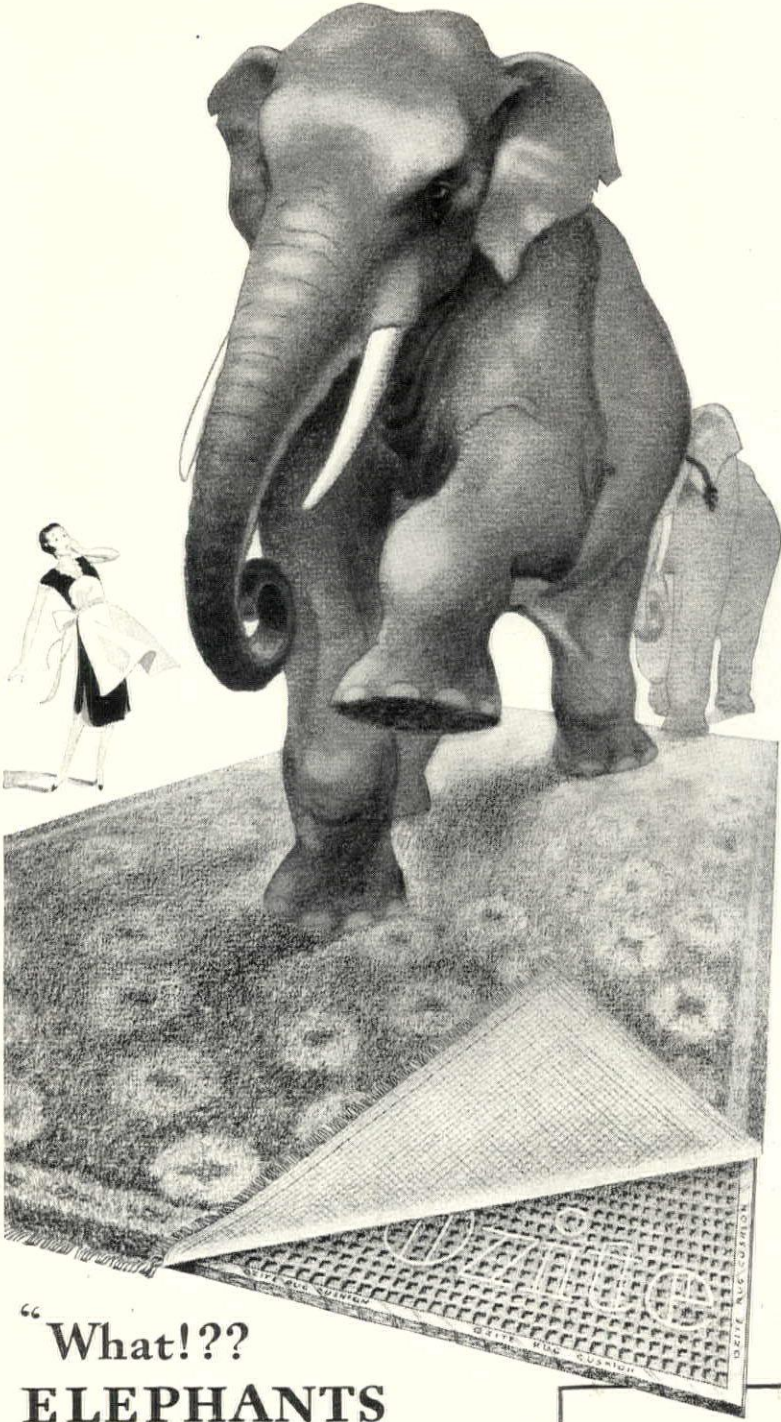
Special information, specifications and services to architects and builders on installations in new dwellings, hospitals, hotels, office and apartment buildings.

Rolscreens

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OF PELLA, IOWA

ROLSCREEN COMPANY, 731 Main St., Pella, Iowa
Please send illustrated booklet showing how Rolscreens can add beauty, convenience and utility to my home.

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“What!?? ELEPHANTS tramping across my rugs?”

No, not actual elephants—but if they did tramp through your house, you could see how their crushing weight would destroy your rugs. Yet you and your family pound—pound—pound across your floor coverings, each foot-step a hammer blow *with the weight of the body behind it*—grinding the fabric against the floor!

Science has perfected Ozite Rug Cushion—a shock absorber for rugs that defies even the tramp of elephants. Ozite cushions the fabric . . . eliminates wear . . . *doubles the life of your rugs*. At the same time, Ozite gives any rug the rich softness of an “oriental.” Lay your present rugs over Ozite. Enjoy today the luxury and economy that Ozite brings to your home.

Ozite is a cushion of felted hair, like a thin hair mattress. Never wears out . . . always stays soft. Mothproof. OZONIZED. Made in all sizes. Requires no fastening. Buy it wherever rugs are sold.

Ozite

RUG CUSHION

GENUINE Ozite Rug Cushion now bears the name impressed on the face of the fabric! For your own protection, be sure you look for the name

GUARANTEE
Ozite is sold under an iron-clad guarantee. It will give you a lifetime of satisfactory service.

Pat. Sept. 9, 1924
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CLINTON CARPET CO., Merchandise Mart, Chicago, Ill.
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"WHAT? Is *that* all brass pipe costs?"



"Home-builders are surprised when I tell them how little more Chase Alpha Brass Pipe costs than pipe that rusts," says Philip H. Maher, plumbing contractor.



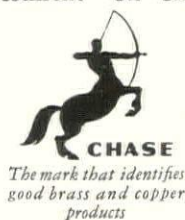
P. H. Maher
of St. Albans, N. Y.

Are you considering a new home? Then do the economical thing—equip it with Chase Alpha Brass Pipe.

For brass pipe *isn't* expensive. By using Chase Alpha Brass Pipe instead of rustable pipe, you'll add about three-quarters of one per cent to the building cost. On a \$10,000 house, that comes to only \$75.

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This is a pretty small investment—when you consider the possible trouble and expense it saves you. For rustable pipe is bound to cause trouble sooner or later.



CHASE *Alpha* BRASS PIPE

For Replacing Old Pipes

CHASE COPPER WATER TUBING

When old pipes have become clogged with rust, they can be replaced economically with Chase Copper Water Tubing. No tearing out of walls and floors is necessary. Chase Tubing is flexible; can be bent around corners; worked down inside walls. It saves fittings, saves money, and is rust-proof.

Red, rusty water will stain laundry and enamel. You'll see the flow of water in the bathroom drop to a thin stream every time a faucet is turned on downstairs. And when leaks finally start—well, one ruined wall or ceiling can cost far more than the few extra dollars you spend now on Chase Alpha Brass Pipe!

Ask your plumbing contractor about it. He'll advise you to decide on Chase Alpha Brass Pipe. He knows better than anyone how important it is to start with pipe that won't rust.

Chase Alpha Brass Pipe is available—through plumbing contractors.

Dooryard Gardens Bring Charm

(Continued from page 93)

many of the houses which are being built now-a-days are Colonial in character and surely nothing could be more in keeping with this style than a simple dooryard planting such as might have been found about a New England home some two centuries or more ago. And in cases where it is impossible to convert the back yard into a garden area, as is so apt to be true of houses built during the Victorian era, the dooryard garden offers pleasant possibilities.

The design of such a garden is determined to a large extent by the amount of ground available. In the case of a house set very close to the street it is necessarily limited to a simple flower border. Where more space exists, however, it allows for a greater play of one's ingenuity and often a very charming little garden can be developed with patterned beds and box-bordered paths. Perhaps one of the most simple and pleasant designs is that of a flower bordered path leading to the door. The path should be of gravel, brick or flagstone.

The planting scheme for the flower beds or borders should be very carefully studied. A succession of bloom throughout the season, attractive color combinations, and a pleasant grouping of plants according to height are all points which should be given thoughtful consideration. With such a wealth of plant material as there is available, selections should be made with care. In a tiny garden, such as a dooryard garden is apt to be, each individual plant counts for so much that one feels one can afford to have only the best. Some of the quaint old-

fashioned flowers which are reminiscent of the gardens loved and tended by our great-grandmothers are particularly suitable for such a planting: Stocks, Mignonette, Bleedingheart, Hollyhocks, Daylilies, Peonies, Sweet Rocket, Honesty, Garden Heliotrope, Phlox, Hardy Pinks with their pungent, spicy odor, and Lemon-scented thyme. Bulbs are invaluable for early spring bloom and may be used in generous quantities: Narcissus, Tulips, Scillas, Snowdrops and the quaint little Snowflakes (*Leucojum vernum*) which are so demure and dainty and are not often seen. The little Checkered Lily (*Fritillaria meleagris*) is also rather unusual and is very charming. Gladiolus, in soft pastel shades, may be planted for midsummer and early autumn flowering and a few hardy Chrysanthemums interspersed here and there give color and bloom until cut down by heavy frost.

A few shrubs carefully placed will give height and substance to any planting. Lilacs are particularly suitable for the dooryard garden, either the old-fashioned common purple Lilac or some of the newer hybrids. The lovely Brier Rose, Harison's Yellow, with its myriad golden flowers, is a thing of rare beauty and was often used in old-time gardens. So also was the Sweetshrub (*Calycanthus*) with its dull reddish blossoms of such spicy fragrance. Many a grandmother can probably recall how as a child she used to tuck one of the flowers in the corner of her handkerchief before starting for church on a Sunday morning and during the long service sniff its delicious fragrance.

English And American Pewter

(Continued from page 108)

Scotch: Pewterers called hammermen, as in France. Centers—Edinburgh, Glasgow, Canongate, Aberdeen, Dundee, St. Andrews, Stirling, and Perth. Pewter made since end of 15th Century. French and Dutch styles locally interpreted; articles and shapes like English with few exceptions. Generally plain, scant use even of moldings. 17th and 18th Century plates resemble soup plates; 17th Century, rather deep, very narrow rim; 18th Century, English type. Fewer tankards used than in England. Bell-shaped goblet on low foot characteristic. See Measure, Pirley-Pig, Quaich, and Tappit-hen.

Silver Fashion: Following silver styles, for decoration only.

Spoon: Follows silver types. Some unique pewter types—a 15th Century maidenhead spoon with lady in horned head-dress, portraits of William and Mary and Queen Anne.

Tankard: English and American. Typical pewter piece; largely follows silver design.

Tappit-hen, or Hen: Scotch beer measure or flagon, holding three English pints; larger and smaller measure in same form. Lid domed, early plain, later crested; lidless Aberdeen type.

Texture: Pewter when cast or hammered and polished has a surface

which absorbs two-thirds of the light and reflects only one-third, producing the low toned luster which is its decorative charm in display pieces.

Thumb-piece, or Purchase: Follows silver designs—shell, embryo-shell, flattened end shell, bent-back wedge, erect—English often pierced, embryo-double-volute, expanded leaf, wedge-shape, hammer-head, bud, double-volute, leaf, ball—Scotch.

Thurndell: See Pot.

Toast and water jug: Really ale-jug, with lip-spout.

Token: English—sort of coin used by tradesmen from time of Elizabeth to Charles II. Scotch—small square, octagonal, or round piece, given to intending church communicant.

Touch, Touch Mark: See Marks.

Touch Plates: English; five of the plates still exist at Pewterers' Hall on which all touches were supposed to be stamped; many destroyed in Great Fire, 1666. See Marks.

Trifle, Trifler, and Trifles: Trifle metal, common quality pewter with less tin. Trifles—small articles made of such metal: spoons, forks, rings, buttons, buckles, toys, etc. Trifler—maker of such trifles in trifle, or plate metal.

Tudric Pewter: English, 1903 and later; trade name for fine pewter made in vogue of the day.

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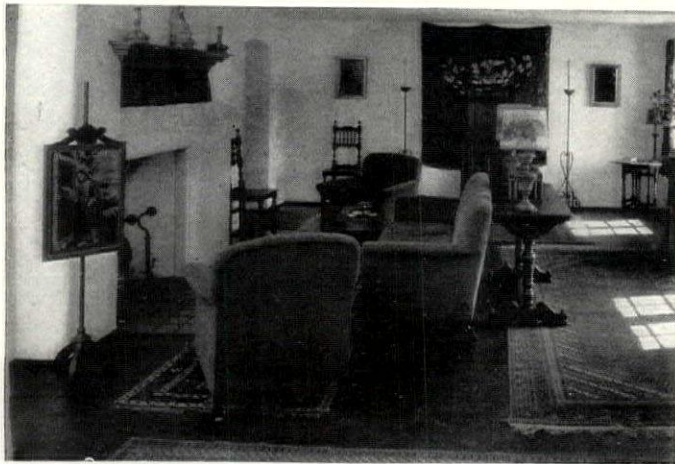
KANE MANUFACTURING COMPANY,
Kane, Pa.

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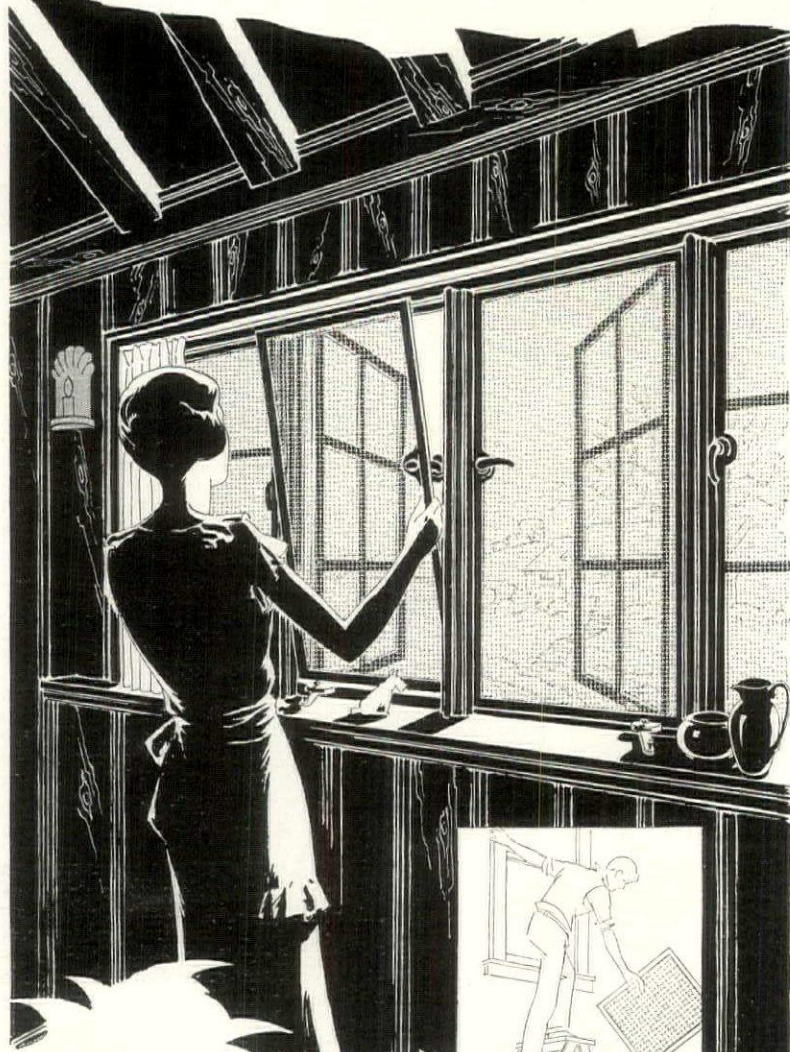
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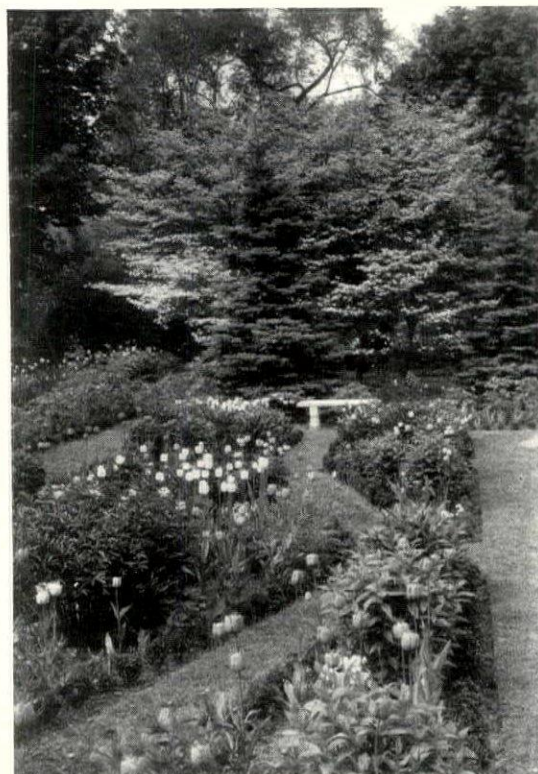
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Fenestra

STEEL CASEMENTS SCREENED



Harry G. Healy

Peonies, Tulips and Oriental Poppies are as subject to the benefits of periodical overhauling as other hardy flowers. These are in the Pliny W. Williamson garden at Scarsdale, N.Y.

Revamping The Hardy Border

(Continued from page 62)

seed and young plants are far more disease resistant than the old ones. The old plants should be pulled out and burned.

Certain plants—Heucheras, Violas and *Campanula persicifolia*, for instance—are easily pulled apart into tufts with the fingers; heavy roots of Phlox, Michaelmas-Daisies, Heleniums or Peonies will require more drastic measures. A good method with plants of this type is to insert two strong hand forks back to back well down in the clump below the crown and to wrench them strongly outwards in opposite directions. If the clump is very old and matted, a sharp pruning knife may be resorted to to divide it into neat sections. A spade is too harsh an implement to use in dividing plants.

In all this, of course, rejuvenation is the end we are working towards. For this reason the best and most youthful divisions only should be retained for replanting; these will be detached from the outer edges of the clump and each should be provided with an adequate root system. The old and spent portions from the crowded center of the clump should be ruthlessly thrown away. In dividing old plants, as in buying new ones, it is well to bear in mind what someone has called the fallacy of the big clump. A vigorous stripling plant, fresh and full of pep, is capable of giving far more satisfaction than a middle-aged clump, appearances and our greedy eyes to the contrary notwithstanding. Two shoots will be sufficient to allow such plants as Phlox, Heleniums, Michaelmas-Daisies, Aspidestras; one to Boltonias, Aconites, Chrysanthemums.

Now that we have the plants all out of the border we may seize the

opportunity to correct some of its unsatisfactory features—and these are commonly not few. Contrary to the belief generally subscribed to, there is no phase of garden practice so difficult to carry out effectively or to maintain in beauty as the so-called hardy border. Compared to it, a rock garden, a rose garden, or any other whatever, is a simple matter. Yet there is no horticultural enterprise more rashly and readily and universally embarked upon. The beginning gardener feels that if he can have anything at all he can have a hardy border and it is only after several seasons of disappointment and disillusionment that he realizes the scope of the problem he has so blithely set out to master.

What is ordinarily attempted in a hardy border is continuous bloom for at least five months of the year, from the first of May say, through September. This alone is difficult enough in our hasty climate where the plants are rushed from bud to bloom and on to seedhood almost in the twinkling of an eye. But if the border is to be a really satisfactory accomplishment, more than continuous bloom is required; there must be continuous foliage as well to support it, and this is less often taken into consideration. The free use of plants having fine and lasting foliage is of the utmost value in preserving freshness of aspect and contours of pleasing fullness. Among such plants may be mentioned the following: *Dictamnus*, *Hemerocallis*, *Iris* of many kinds, *Thalictrum*, *Yuccas*, *Baptisia australis* and *B. tinctoria*, numerous Michaelmas-Daisies, *Helianthus multiflorus* fl. pl., *Cimicifugas*, *Chrysanthemum nipponicum*, *Chrysanthemum arcticum*, *Phlox*, *Funkias*—(*Hostas*), and the

(Continued on page 126)

SEDGWICK INDIVIDUAL ELEVATOR

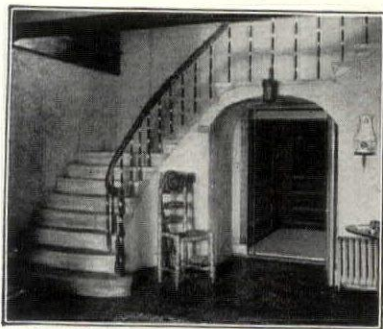


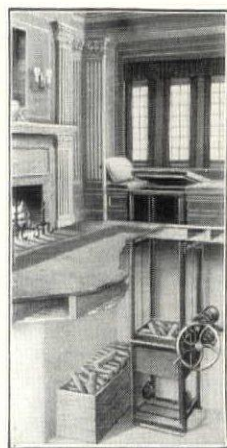
Illustration shows how pleasantly a Sedgwick Invalid Elevator may be installed in the home without marring its appearance.

STAIRS spell ISOLATION in so MANY homes

where some dear one cannot or should not climb stairs

ONE has only to read a few of the many letters we have received in the past 20 years from users of the Sedgwick Individual Elevator to realize how cherished is the opportunity to travel freely from floor to floor, instead of being confined to one room or one floor. Almost invariably these letters include an expression such as: "If I had only known about this Elevator years ago!"

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Revamping The Hardy Border

(Continued from page 124)

gray-leaved plants, *Elymus arenarius*, *Ruta graveolens*, *Nepeta mussini*, and several *Artemisias*.

The border maker must indeed know his material. As he begins to replace the freshly divided plants, and probably to add new ones, many things must be kept in mind concerning them. He should know when they bloom, how long they continue to bloom, their height, color, the character of their foliage and general habit of growth, as well as how they carry themselves after the blossoming period is past. It must be remembered, too, that in border gardening it is not the individual plant that counts but the mass. Here the collector's urge must be subordinated to the point of view of the artist; he must not play favorites but plant always with a view to the ultimate effect. To this end the planting should be done in groups or drifts, the number of plants in the groups depending upon the dimensions of the border, and the effect will be most satisfactory when no uniformity of line is attempted. Some tall things may be brought towards the front of the border and lower growing kinds allowed here and there to run back into the interior so that a gently undulating effect is created. Plants giving the longest service in bloom, or possessing fine and lasting foliage, are wisely vouchsafed the greatest prominence, with the more ephemeral kinds used as delightful incidents. When it comes to color, as the border is to be viewed as a whole, harmony is more pleasing than contrast, though the colors employed may be as brilliant as desired. But contrast of form, either in flowers or foliage, is always desirable. Thus plants of such contrasting character as Lupines and Bearded Iris, Gypsophila and Poppies, Hollyhocks and Bocconia, *Veronica spicata* and Eryngiums, Delphiniums and Thalictrums, *Lavatera alba* and *Salvia sclarea*, set each other off uncommonly.

DISTRIBUTING GROUPS

Many a border appears well furnished until after the tall stalks of the Delphiniums have been cut down in July when, unless the planting has been done with knowledge and discernment, it begins to have a ragged and unkempt appearance. To prevent this lamentable lapse of seemliness we should in replanting the border distribute the groups of plants so that they will hide each other's imperfections and defections, as well as enhance each other's beauty. In front of Delphiniums, Anchusas and Thermopsis, for instance, whose tall stems are cut down after flowering, leaving unsightly blank places, there should be placed some plant of enduring foliage and good form. Thus *Thalictrum glaucum*, set in front of Delphiniums not only gives us pleasure by mingling its feathery yellow plumes with the blue spires, but later forms an effective screen when the latter must be cut down. Bushy plants of the taller Michaelmas-Daisies set in generous groups in front of Hollyhocks will hide their shabby aftermath and bring a later blossoming to this section of the border. *Baptisia australis*

may be used for the same purpose and blooms before the Hollyhocks. At the front of the border *Nepeta mussini* serves as a most useful screen for low growing Lilies whose day is short, as well as providing them with a becoming setting at the time of flowering. The low broad bulk of Aster Mauve Cushion is also good for this purpose.

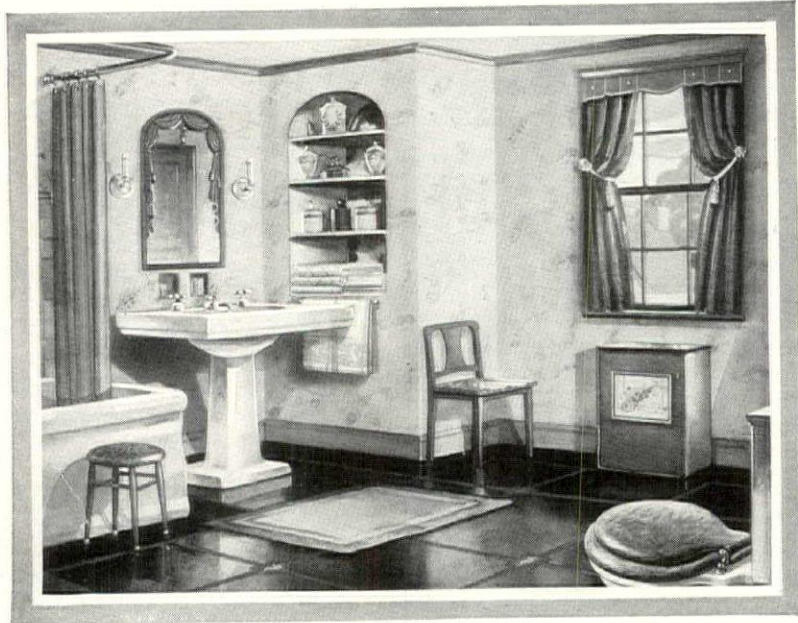
No one will want to forego the pleasure of Foxgloves or Canterbury-Bells in the borders, yet these famous biennials leave us sadly in the lurch when their blossoming period is past. To get around this embarrassment they may be interplanted with Gladioli or Galtonia to bloom later, or set in narrow drifts between plants that will later mask their departure. Michaelmas-Daisies of bushy habit, such as *Aster acris* or *A. ericoides*, may be planted behind them and the slender, spray-like branches later drawn down to meet the low growing plants in front of them. All plants of narrow, slender growth, such as Aconites, many Mulleins, especially the slender creamy Miss Willmott, *Pentstemon barbatus* and the like, should have a rather bushy foreground planting—*Chrysanthemum nipponicum* in front of the Aconites, perhaps; the rose Loosestrife in front of the Verbascum Miss Willmott; Erigeron Quakeress in front of the Pentstemon. Gypsophila set behind Oriental Poppies or *Campanula persicifolia* is a famous aid in distracting our attention from their lost charms, and if the low-growing Heath-like Aster, Peggy Ballard, is placed in front, the gap is completely filled.

END PLANTINGS

Border ends should be especially well turned and neatly planted. Very effective for an end planting is a generous grouping of the large-leaved *Saxifraga cordifolia*, with Gypsophila Bristol Fairy massed behind it and behind this again a generous planting of *Veronica spicata*. Or in place of the Saxifrage the Blue Plantain Lily, *Hosta caerulea*, may be used and behind it a spreading mass of *Geranium sanguineum album*, which holds its nicely rounded form, once it is established, long after its blooming is over. Back of this there might be a solid planting of Hemerocallis, or the blue-spiked *Salvia virgata nemorosa*.

A few well shaped stones placed at irregular intervals along the edge of the border will break its severe length and provide reason for introducing mats of Aubrietia, Arabis, Creeping Phloxes and other rock-loving plants. Alternating groups of white Pinks and Nepeta make a border verge of great charm and one that is fresh and seemingly throughout the season. Another good edging combination that has to recommend it a very long period of blossoming is Viola Jersey Gem, Heuchera (one of the brilliant hybrids) and mats of blue and white *Campanula carpatica*. It is important to establish a few late-flowering perennials near the front of the border and for this purpose none are better than Aster Mauve Cushion, Aster Peggy Ballard.

(Continued on page 132)



Now—

An easy, inexpensive way to make your bathroom Beautiful and Modern

by Sarah Stevens

NOW that you have looked at the lovely bathroom above, let me tell you just what was done to produce this charming result.

It was not a brand-new bathroom. Of course, it looks refreshingly new now—but it was just an average bathroom. The only thing really old-fashioned was the toilet seat. And right there was where I started modernizing—selecting a beautiful Church Sani-Seat in old rose.

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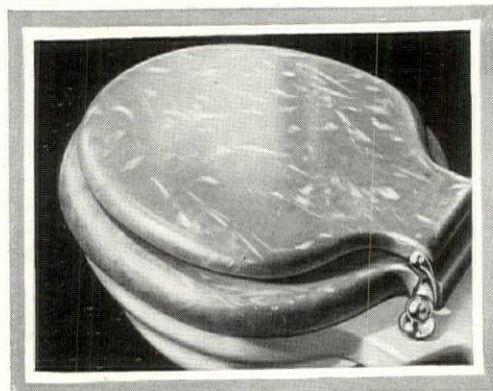
And equally interesting is their low cost. A Church Regal Seat can be had for as little as \$5.00. Church De Luxe Seats in Sani-White from \$9.00. In lovely pastel tints from \$10.00. In rich sea-pearl colors—from \$15.85.* All are modern, sanitary, guaranteed. Plumbing dealers everywhere have them in the style and color you wish.

For the walls I selected a waterproof paper in salmon pink and gold. Then—a shower curtain striped in coral, green and lavender, a soft bath rug in shrimp pink and sea green and cream towels bordered with green dolphins.

By the tub went a sturdy little Church Bathroom Stool—only \$10.00. Add, if you wish, one of those useful Church Bathroom Chairs. These soon pay for themselves in daily service and comfort—and they do add so much beauty and charm.

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Planting And Seeding Seasons

(Continued from page 83)

a close approximation of the period during which operations may be undertaken in a normal season.

It has been possible to secure information of some kind, in most cases very accurate and valuable, covering all of the United States east of the 95° meridian, and on the West coast. The unclassified areas west of this meridian as shown on the map are generally arid, mountainous or desert, and even if information were available it is not likely that much use could ever be made of it in the planting of ornamental woody plants or lawn grasses.

Planting seasons, of course, vary from year to year from the average or normal season, both in length and occurrence by calendar dates. It may generally be safely assumed that when seasons open early, either in the spring or fall, they will be of unusual length; but that when they open late they will be shorter than the average. This is because, while the law of averages works to even up the minor variances from the normal seasons, the spring planting season will seldom be prolonged past the normal ending date due to the observed tendency of all deciduous plants to produce leaves and blossoms on schedule after a certain date in late spring. In the autumn also, the inexorable march of the seasons brings unfavorable weather which stops work at about the same time each year, except in abnormal seasons.

MOVING PLANTS

A planting season as considered in this discussion is the best time of year to do planting work with normal care, and not the whole of the possible time when success may be secured by taking unusual precaution such as moving at abnormal cost with a liberal "ball" of earth to protect the roots. When grass seed is sown, the factors to be considered in determining the planting season are the condition of the soil and the available light, heat and moisture. When plants such as trees and shrubs are moved, the condition of the plant itself is a very important consideration. For best results the plant should be dormant or nearly so in the vast majority of cases. Unless the plant is to be moved with a ball of earth so large as not to disturb its root system, the time of year when new root growth takes place must often be considered in selecting which season or part of a season is the best for any certain kind of plant. This requirement applies especially to evergreens.

The more experienced planters can, by taking extra precaution suited to their particular localities, oftentimes extend planting seasons to an abnormal length. This is at best a risky procedure and only normal planting seasons for normally grown and handled plants are considered in this compilation. A normal planting season is considered to be one in any part of which a plant can be moved with an average, or better, chance of becoming immediately reestablished, and resuming growth as quickly as the then existing or next growing season permits.

Since the terms "evergreens," "deciduous" and "lawn grasses," while covering the different materials used in all sections, vary somewhat in mean-

ing in different places, the following explanations may help to explain the charts. The term "evergreens" is somewhat variable, applying only to coniferous evergreens such as the Pines, Spruce, Arborvitae and Firs in the extreme North. Along the Atlantic seaboard it is broadened to include the ericaceous evergreens, such as the Rhododendrons and Mountain Laurel. In the Southern States and along the lower Pacific Coast the term also applies to such broad-leaved evergreens as the Camphor Tree, the Cherry Laurel and others. In southern California and Florida the term includes practically all the materials used in ornamental planting except such plants as are strictly tropical or the deciduous fruit trees.

PLANTING EVERGREENS

Evergreens are generally best planted just as top growth begins in the spring, or in the fall just before growth stops, especially when moved without a ball of earth about the roots.

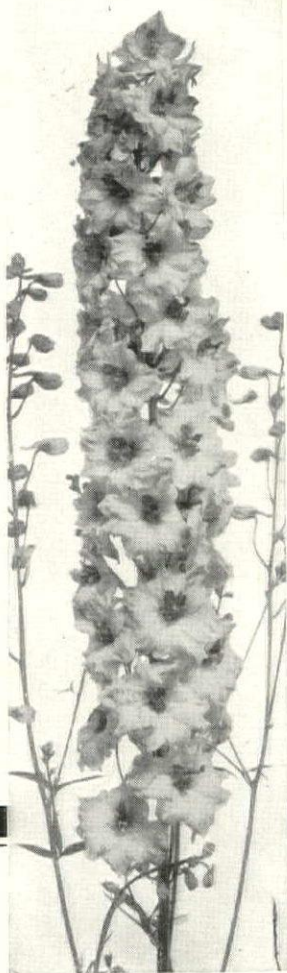
Any of the Pines, Spruces, Firs and Hemlocks which make their largest growth in the spring and form new roots, new tops and next year buds before August 15, as a rule can be successfully moved in the autumn where climatic conditions permit. Hemlocks, in the North, are often moved with best results in the spring season. Sometimes Austrian Pines can be moved as late as the last of October with good results, without abnormal precautions to protect roots with a large ball of undisturbed soil. The Junipers and Thujas, in which the sap flows late in the autumn, are better moved in the spring, unless moved early and as soon as the fall rains start.

In Florida the broad-leaved evergreens should preferably be transplanted during the summer season or while in active growth, except those plants previously grown in pots or tubs, or balled and burlapped, which may be transplanted at any time during the year. Palms are usually classed as broad-leaved evergreens and are best transplanted just as growth starts—or while in active growth—since the roots are large and fleshy and soon decay if not in active growth. These and other strictly tropical plants are generally best moved from February to October.

In spite of the common and increasing custom of moving evergreens of all sizes with a ball of earth to protect their roots, the total length of their planting seasons tends to stay at a very moderate increase over the length of the seasons for deciduous plants because of the large loss of vital moisture by transpiration from their persistent tops, both during summer heat and winter cold. If plants do not become well reestablished before the onset of summer drought or winter freezing, results of moving are likely to be unsatisfactory if not a failure.

In the North, the general rule is that all deciduous, hard-wooded material transplants readily at any time while not in leaf; but farther south, due no doubt to the long growing season, there is in addition a short season in midsummer when plants may be successfully moved if cut back heavily

(Continued on page 130)



Delphiniums and Roses

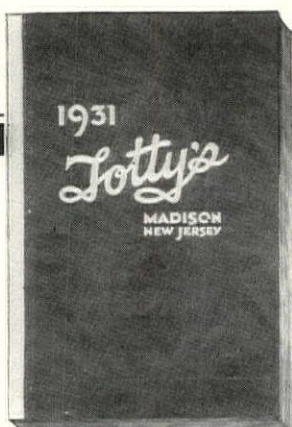
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Planting And Seeding Seasons

(Continued from page 128)

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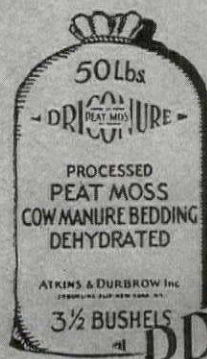
...At last Nature's own fertilizer... odorless·concentrated·safe

Driconure is a pure organic compost of vegetation that Nature has been composting for perhaps a thousand years; added to which is fresh cow manure and the whole dehydrated to concentrate and strengthen. The result is a most unusual fertilizer—Nature's own method of feeding. And Nature's method is always best... produces better results... better color... better all-around satisfaction.

No finer combination of materials could ever be prepared by human ingenuity—none that will give as satisfactory garden results. Nor will you find anywhere a fertilizer that both feeds your plants and builds up a reserve at the same time—except in DRICONURE. It is

the greatest advance in fertilizing and soil building that has been made in many generations. Odorless, free of weed seeds, every bit will feed your plants without waste, for its food value is held at the plant root level until it is all used. You are also safe in the assurance that it will not burn.

Try this age-old friend in its new form. Literature on request. 3½-bushel bags of fifty pounds, \$2.50 f.o.b. Julietstown, N. J., or through your local dealer.



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at the time of transplanting. Where fogs occur or the air is naturally moist, such as in west Oregon, Washington and north California, the deciduous plants may often be moved when partly in leaf or they may be stripped of leaves wholly or in part; but generally their planting season is covered by the periods when they are not in leaf and when the soil is in favorable condition.

Different parts of the country use different kinds of lawns. In the north, lawns are usually made of Blue Grass, Fescues, Bents, or hardier Grasses which are sown from seed. During recent years, Creeping Bent lawns propagated by vegetative methods have been much used. Most northern Grasses may be planted at any time after the growing season opens until hot dry weather begins, or in the fall after hot weather is past and until the approach of cold weather renders the probability of successful growth unlikely. Grass seed sown so late in the fall that it does not germinate, customarily lies dormant until spring without any harm, and this results in a very early start for the plants from this seed. This explains some of the late planting seasons shown on the chart at Stations 8 and 10, especially where the young Grass plants or unsprouted seed are covered by a blanket of snow in winter. Spring sown seed must not be sown too late or the intense sunshine will "cook" the young plants. Even a large amount of watering cannot successfully overcome this disadvantage except in some of the northernmost States, such as Montana, where winter drought and deficient sunlight at other seasons make summer sowing of Grass an exception to the generally preconceived rule. Grass seed must be sown in the fall sufficiently early to allow for some growth of the grass, otherwise the partially developed seed will be winter-killed. The end of the suggested seasons for sowing seed in different parts of the country takes this fact into consideration.

NORTH DAKOTA

The charted locality having the shortest planting season is North Dakota. Here, because of strong winter winds and the rigors of the climate, fall planting of evergreens or deciduous material is inadvisable. Proceeding east, west and south of this State, one first finds a winter season of five months when planting operations are impossible. This winter season gradually shortens with the lengthening of both the fall and spring seasons, until one finds a continuous planting season during the entire year except for the hottest months of the summer; and finally, in the far South, one finds an almost unbroken planting season through the whole year. Thus we have in reality two distinct portions of the country. In the northern portion, the dormant or winter season is divided into two parts by unfavorable cold and freezing weather, and in the southern one the possibility of planting throughout the whole year is interrupted by an unfavorable summer drought.

The charts and the map also show

how the nearness of large bodies of water influences the length of the planting seasons by decreasing the severity of the winters. This is especially well shown by the difference between eastern Washington (Station 27) and the Puget Sound and Willamette Valley or western portion of the same State (Station 48). The influence of the Great Lakes upon all shores except Bruce Peninsula and Georgian Bay territories is also shown.

Few places in the United States have more difficult planting and seeding problems than the North Dakota plains. On account of light snowfall and extremely cold, dry winters, all fall planting of evergreens and deciduous materials is likely to be unsuccessful except in a wet season or when the plants receive constant and copious watering until frozen in for the winter. Winter-killing is a very common occurrence even amongst the native trees such as Cottonwoods. Lawn seeding is successful only during a rainy season and when done in normal season from April 15 to June 15 and from August 15 to September 7. Later seeding is always doubtful and inadvisable, while seeding during the period from June 15 to August 15 is generally inadvisable even under irrigation.

MONTANA

In Montana (Station 2) drought again makes fall planting of deciduous trees very inadvisable because they do not become sufficiently well established to withstand the severe winters, whereas evergreens, which can be moved before deciduous plants become dormant, are more successful. Lawns are successfully seeded from April 1 through July, if enough water is available. Seeding of lawns during August or September is not advisable because of winter-killing where grass is not well established.

In the upper Mississippi Valley (Station 9) the beginning of the spring planting season varies greatly, depending upon the date when the ice and snow begin to melt or break up. Lawns can be successfully seeded all summer if water is available. Fall seeding is not so successful unless sowed after October 25 to lie dormant all winter.

In Iowa (Station 18) only the hardest plants should be moved in the fall, but lawns succeed best from fall sowing when properly watered and established before winter weather.

About Detroit (Station 16) the fall planting of evergreens has proved very unsatisfactory and considerable winter-killing occurs in all fall planting, especially in those fall seasons following a dry summer. No lawns should be seeded, as a rule, after September 30 unless seed is sowed just before freezing weather and allowed to lie dormant over winter.

Severe fall and winter climates make lawn seeding along the Maine coast, and evergreen planting about Pittsburgh, very risky and unsuccessful in the fall. About Buffalo, also, spring planting of evergreens is considered much more likely to be successful, especially if done as soon as indications of new growth appear. August and September seeding of lawns in this section has been very satisfactory when

(Continued on page 132)

A Page of SCHLING SPECIALTIES for 1931!

Last Minute Novelties and Recent Introductions!

Do You Know This Secret?

GREEN PEAS, and plenty of them, from June to August—if you follow the simple directions.

Plant this collection of 6 choice varieties all at once this Spring, just as soon as the frost is out of the ground—and they will mature in the order named—producing a steady procession of big, mouth-watering crops from about June 20th till late in August. The reason for this is evident. Peas must develop their roots in the cool weather and so are able to supply sufficient moisture to leaf, flower and pod as they rapidly multiply under the summer sun. On the other hand late planted peas are almost always a disappointment, as every experienced gardener knows.



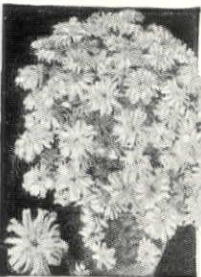
Schling's "Long Season" Pea Collection

- Schling's Pedigree Extra-Early, 2½ feet. The earliest Pea grown, large, well-filled pods.
Gradus or Prosperity, 3 feet. An early fine wrinkled Pea of delicious flavor.
Sutton's Excelsior, 1½ feet. The most productive dwarf medium-early wrinkled Pea; very sweet.
Dwarf Champion, 2½ feet. An enormous cropper. Broad pods, very sweet.
Improved Telephone, 5 feet. Enormous pods, filled with Peas of the finest quality.
Heroine, 4 feet. Pods are large, deep green, somewhat curved; tender Peas of finest quality.
- | | |
|---|--------|
| # 1—½ lb. each of all 6 varieties, 3 lbs. in all..... | \$1.75 |
| # 2—1 lb. each of all 6 varieties, 6 lbs. in all..... | 2.75 |
| # 3—2 lbs. each of all 6 varieties, 12 lbs. in all..... | 5.00 |

For once—all the green Peas you want if you buy this collection. Delivered free within 300 miles. Beyond, add 5c per lb. for postage.

OFFER A

Novelties of 1931—Absolutely New! A \$14.65 Value for \$12.00



Edelweiss Aster (Offer A)

Edelweiss Aster—Snow White—First of a new line of asters, very dwarf and floriferous—10- to 12-inch plants covered with snow white flowers resembling Alpine Edelweiss. Perfect for bedding. Pkt. 75c
Ageratum Mexicanum Nanum, Rosabella—An exquisite new deep rose variety. Very dwarf, and with Ageratum Blue Cap below is unsurpassed for border planting. Pkt. 75c
Ageratum Blue Cap—A decided improvement on Little Blue Star. Each little plant forms a compact dome of blue flowers. Pkt. 75c
Arctotis Breviscapa Aurantiaca—Another lovely golden yellow daisy from Africa with purple center. Flowers very freely. Pkt. 50c



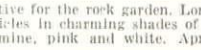
Aquilegia Crispum Star (Offer A)

Aquilegia Crispum Star—A new Columbine with brilliant flowers of a dark, rich crimson, carried on long graceful stems. Pkt. 75c
Hardy Spring Flowering Aster, Subaeuleus, Wartburg Star—Huge Daisy-like flowers of bright lavender-blue, 4 inches across, on 28-inch stems. Bloom in May and June. Extremely effective with white daisies and galliardias in bed or vase. Pkt. 75c
Orchid-flowered Dahlia—A very unusual star-shaped annual Dahlia in white, red, orange or canary yellow. Its long twisted petals, often with contrasting colors on front and back, make it a novelty of very distinctive effect. Pkt. 50c



Nicotiana, Crimson Bedder (Offer A)

Nicotiana Affinis, Crimson Bedder—Deep crimson flowers borne freely on 15-inch plants. A splendid bedding plant. Pkt. 60c
Gypsophila Pacifica—A new and very hardy Baby's Breath whose pink blossoms form a wonderful contrast to G. paniculata, the white variety. Unexcelled for flower arrangements. Pkt. 75c
Eryngium Amethystinum—A charming perennial whose bright steel blue flower heads may be picked and dried for a winter bouquet. Also very effective in the border. Pkt. 50c



Pentstemon Spectabilis (Offer A)

Pentstemon Spectabilis, Blue—An abundance of bell-shaped flowers of richest blue carried on 4 to 5 ft. spikes. A beautiful rarity. Pkt. 35c
Lechnis, Forresti Hybrids—Very decorative for the rock garden. Long showy panicles in charming shades of crimson, carmine, pink and white. April to May. Pkt. 75c
Giant Scabiosa, Loveliness—Very unusual in form and color, a delicate salmon-rose. Delightful fragrance. Pkt. 50c
Papaver Nudicaule Delicatum—A new and worthy rival to the famous Cornuta Pink. Delicate rose color. Pkt. 75c
Double Heliothis, Golden Yellow—A much improved and very double variety of brilliant golden yellow, borne on plants often 3 to 4 ft. high. Pkt. 35c
Ursinia Anethoides, New Hybrids, Jewels of the Veldt—A delightful stranger from South Africa with flower petals of a rich orange contrasting with a center varying from ruby red to dark purple, spangled with jewel-like dots. Blooms June to September. Pkt. 50c



Ursinia Anethoides, New Hybrids, Jewels of the Veldt (Offer A)

Petunia Hybrida Grandiflora, Queen of the Market—A magnificent new Petunia of the most vivid scarlet. Flowers 3½ in. across, petals slightly waved. A profuse bloomer and wonderful in bed or window box. Pkt. 75c
Petunia Hybrida Nana, White Cloud—A grand new dwarf hybrid. Large pure white flowers borne on stiff stems, 1 ft. tall. Pkt. 75c
Petunia Hybrida Nana, Cockatoo—Very dwarf and compact (8 in. tall). Flower petals deep velvet violet, tipped with white. Very striking in bed or rockery. Pkt. 50c
Viola Cornuta, Lavender Gem—A profuse, all season bloomer with even larger flowers than the great English favorite, Maggie Mott. Rich deep lavender in color. Pkt. \$1.50

African Orange Marigold, All Double—A brand-new California triumph! Produces 100% of fully double blossoms. Pkt. 35c
Ursinia Anethoides, African Orange Daisy—Brilliant orange flowers, two inches across, deep purple tone, borne on long, wiry stems. Pkt. 25c
Dahlia-flowered Zinnia, Golden Dawn—Enormous blooms of a pure golden yellow. Very striking. Pkt. 50c

OFFER B

Schling's "Get Acquainted" Collection a \$3.25 Value for \$1.00

Schling's American Beauty Aster—Gigantic flowers, 7 inches across, 3 ft. stems, same color as American Beauty Rose. Pkt. 35c
Schling's New Orange Glory Calendula—Golden orange perfect form. Very double. Pkt. 25c
Schling's New Annual Double Fringed Hybrid Chrysanthemum—In a charming color range, very attractive in both garden and vase. Pkt. 15c
Schling's Semi-double Crested Cosmos—Of giant size with double rosette-like center. Pkt. 25c
Schling's New Hybrid California Poppies—Lovely new shades of pink, scarlet, chrome, copper red, claret, purple, etc. Pkt. 25c
Schling's New Giant Hyacinth Flowered Larkspur—Excels all others in length of stems, size of flower spikes and general vigor. Pkt. 35c
Schling's New French Marigolds—Glorious—Rich velvety brown, blotched on brilliant velvety scarlet. A gem. Pkt. 75c
Schling's New Erysimum, Orange Beauty—Pale orange-yellow, wallflower-like spikes. Delightfully fragrant. Pkt. 25c

Schling's New Giant Early Flowering Pansy—World Record—Flowers of immense size on long stems. In bloom from March to December. Pkt. 25c
Schling's New Marvelous Dahlia-flowered Zinnia—True Aristocrats. Flowers 6 to 7 inches, like huge dahlias. Pkt. 40c

"Indian Summer"

Latest and Loveliest of Schling's New Supergiant Snapdragons

Marvelous not only for size, though its flower spikes rival the gladioli in height and vigor—but also for its color, a rich velvety copper red hitherto unknown in snapdragons and indescribably beautiful—no other snapdragon remotely approaches it—a "First Prize" winner whenever exhibited. 1 pkt. \$1.00 6 pkts. \$5.00



Snapdragon Indian Summer

OFFER F

Glorious Gladioli 100 for \$3.50

Choice Mixture—Including all the latest and most beautiful varieties such as the lovely Primulinus or Orchid Gladioli, running a gamut of subtle pastel shades from ivory yellow to an iridescent bronze such as mark the finest naturalium collections. Start planting April 25th and every 3 weeks thereafter to July 15th and enjoy a long procession of beautiful bloom. A \$7.00 value for only \$3.50 or 50 Bulbs for \$2.00.

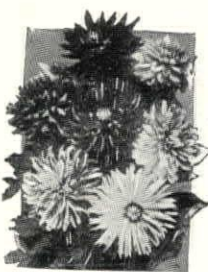


Gladiolus

OFFER G

Twelve Prize Dahlias! At the amazing price of \$5.00

gives you the greatest value ever offered on any dahlia collection. Regular catalog prices total \$21.75
By a special arrangement we are able to offer a limited number of this choice Dahlia collection, consisting of 12 exhibition Dahlias in 12 named varieties, at a truly remarkable price concession. They are all exhibition varieties that will be the pride of your garden for years to come.



Dahlia

OFFER H

Montbretias

whose flower clusters, in exquisite pastel shades ranging from pale yellow to deep orange, hang like golden stars on long, slender, wiry stems. Have all the airy grace of the orchid Odontoglossum. Plant the bulbs in April and May, 3 inches deep and enjoy them all season. Easily grown. 25 Bulbs for.....\$2.00 50 " ".....3.85 100 " ".....7.50



Montbretias

OFFER I

Giant French Poppy Anemones

Marvelous poppy-like flowers in wonderful color combinations. Blues with white bases; Pinks with blue bases. Cream and apricot shades in endless profusion. Truly a gem of the first water! Plant bulbs in May, 3 inches deep. 25 Bulbs for.....\$3.00 50 " ".....5.50 100 " ".....10.00



Giant French Poppy Anemones

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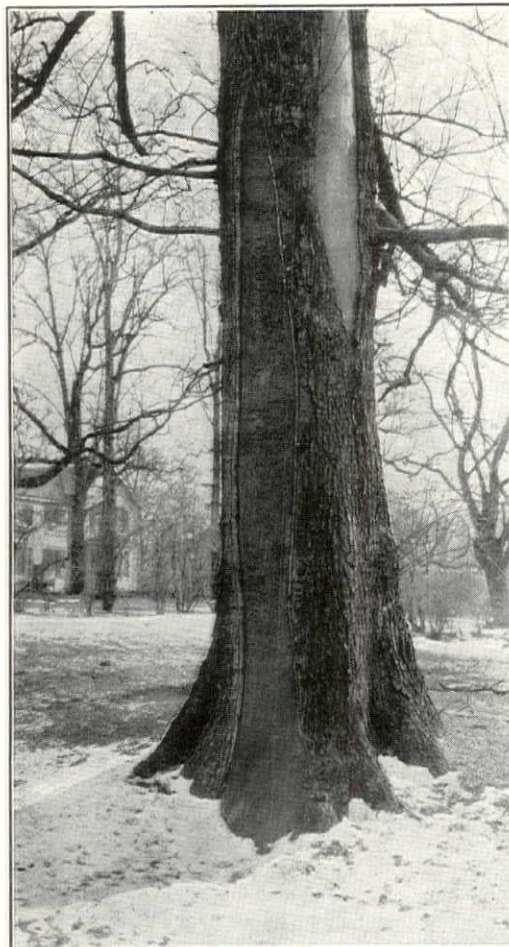
No stooping—no grubbing! Destroys dandelions, poison ivy, and all other noxious weeds easily and quickly by depositing a small quantity of the Killrite chemical at the heart of each plant. Absolutely harmless to all animal life, hands and clothing. Dando Killrite \$5.00 each Killrite Filler...60c a can



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NAME..... ADDRESS.....



Planting And Seeding Seasons

(Continued from page 130)

carefully done and all spring seeding requires constant sprinkling except in a rarely wet season.

In eastern Washington, June and July are the best season for lawn seeding. In this section, irrigation is necessary for the most successful results and midsummer sowing of Grass seed avoids the necessity of combating annual lawn weeds which appear in early spring sowing and which mature during the first growing season and cause much difficulty.

Eastern Oregon has not been classified on the map or charts but may be roughly divided as follows: The central portion of this part of the State has almost desert conditions with a short planting season in April. North of this portion there lies an area where irrigation makes planting feasible, but only in early March. In the southeastern part of the State, there is a cold and dry area where a short planting season is found in April. Conifers and broad-leaved evergreens are seldom used throughout the eastern portion of this State, excepting the native Pine and Juniper.

In northern California, lawns are usually most successful when they are planted in the fall. This part of the State has two growing portions, (a) the coastal plain and (b) the interior valley. Along the coast from San Francisco northward, in the fog belt, properly "hardened off" evergreens can be planted during August very successfully, and in the environs of San Francisco they may be planted throughout the whole of the year.

In Washington, D. C., while it is possible occasionally to continue planting operations through the whole winter, during most winters work must be suspended during December and January.

In Arizona, evergreens may be planted during October, November, February and March; but in New Mexico fall planting of any sort is inadvisable on account of wind and very early frosts.

In Nova Scotia, Prince Edward Island, Cape Breton and Newfoundland, broad-leaved evergreens may be planted in the spring beginning a little later than the coniferous evergreen planting season and ending about June 10. It is not considered advisable to plant broad-leaved evergreens in the fall in these four provinces.

The following notes are given as the probable explanations of three or four instances where the map divisions

do not, at first glance, coincide with a logical arrangement.

The short season zone of the Carolina coastal plain (Station 38) and central Georgia (Station 43) is explained by the necessity of all the planting being normally done during a single short winter season each year.

The relatively large number of planting days in the zone in which lie Pittsburgh, Pa. (Station 25) and Cincinnati, Ohio (Station 35) is undoubtedly due to the effect of the broad upper valley of the Ohio River. Central Kentucky (Station 34), which lies immediately south of this zone, lacks this influence and has a longer period of winter inactivity.

Southern Maryland and southern Delaware (Station 24) have a relatively short planting season because they have a long growing season and a long winter, while Long Island (Station 33) has abnormally long planting seasons due to a normal growing season and a very long but comparatively open winter.

The divisions on the map correspond in a general way to the life zones shown on the map published in Bulletin 10 of the Division of Biological Survey, U. S. Department of Agriculture, entitled Life Zones and Crop Zones, by C. Hart Merriam, which gives an additional check upon the probable correctness of the divisions shown on the accompanying map. The life zones, in the bulletin noted, were arrived at by plotting the periods of physiological activity in plants, whereas the zones shown on the accompanying map were plotted from the data sent in by competent observers of the dormant period, which is the reverse of Merriam's method but arrives at almost identical conclusions.

The division lines between the different portions of the map are at best only approximate, and in some instances are hypothetical. Thus the lines dividing Florida into two parts and dividing the California-Oregon coastal plain are instances of this sort.

The study of planting and seeding seasons is extremely interesting. This study points to so many interesting variations in planting conditions that the possibility of exactly defining the reasons governing planting and seeding seasons in all localities seems remote. The author welcomes from readers of this article any suggestions which may add to the fund of information compiled to this time upon this important subject.

Revamping The Hardy Border

(Continued from page 126)

lard, *Chrysanthemum arcticum* and *Cerastostigma plumbaginoides*, which is our old friend the blue-flowered Plumbago.

Of course annuals may be freely used among the perennials if space is left for them. Those having a long flowering period are the most valuable. Of these are Snapdragons, Calendulas, Marigolds, Salpiglossis, Petunias, Verbenas, ten-week Stocks

and Zinnias. In making use of Tulips and Daffodils in the hardy border I prefer to plant them rather towards the back where the oncoming foliage of the perennials will later hide their untidy going off.

A well made border, one that has been deeply dug and well enriched, will support a heavy burden of plants. We need not hesitate to plant closely in order to secure an immediate effect.

A cavity technic —developed by Science

THERE are two patented features in all cavity work by Bartlett which only Bartlett clients enjoy. Vick's Nuwud, available only in Bartlett surgery, is the famous light-as-wood filler that is resilient and weaves and flexes with the tree in the wind. There are imitations of Nuwud, which unscrupulous imitators often call by the same name. Only Bartlett can use Nuwud—and only Nuwud is recommended for your trees.

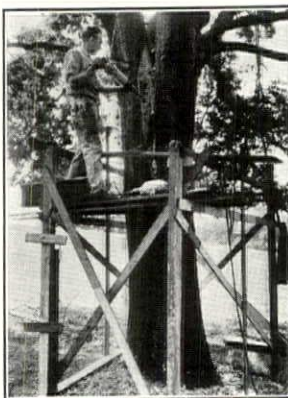
Similarly the famous Bartlett Heal Collar with its aseptic properties and its drainage lip combines with Vick's Nuwud to bring the technic of modern tree cavity work up to the high standard developed and set by scientists of the Bartlett Tree Research Laboratories.

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ACCEPTED BY DISCRIMINATING GARDENERS SINCE 1847

FLOWER SEEDS

A garden is appraised by the quality of its blooms. Among the many ingenious and helpful features of our catalogue, there is on page 83 one to aid in the selecting of flower seeds for various purposes and situations, as well as directions on how to be successful in cultivating flower seeds, on page 82.

Whether you cherish the tiny loveliness of the modest Forget-me-not or thrill with the gorgeous beauty of the flamboyant poppy, the House of Henderson will supply you with grains of seed that will thrill you with their miraculous development. No need of inferior seed while Henderson's are available. The folly and wastefulness of experiments with less dependable sorts are eliminated by the use of Henderson's Tested Seeds.

Henderson's Selected Strain of Perennial Delphiniums—Double Flowering. Greatly improved varieties, easy of culture, stately, astonishing in their modern beauty. Of indescribable colorings, they bear heavy spikes of immense florets. Indispensable in the garden, ideal for indoor decoration, perfectly hardy. Can be sown in the open ground from May to July, to have flowering plants the following season. Admiral Cardigan, brilliant blue, marbled rose. Amos Perry, rose mauve flushed sky blue. Blue Mist, pale blue and lavender with white eye. Captain Lambton, rich plum color, edged violet. Coronation, rich purple and deep blue. Summer Sky, light sky-blue with white eye. 25c a packet, or collection of six above named varieties \$1.00. See color plates facing page 84 in catalogue.

Aquilegia Crimson Star. Long spurred hybrid. Beautiful as have been the Columbines hitherto offered, this novelty bears spur flowers of brilliant dark crimson. Blooms profusely and is most compelling in its subtle charm. Packet 35c.

Dianthus Allwoodii, Sweet Wivelsfield. Hardy Biennial hybrid. Quite distinct in flowering habit and growth from annual Sweet William. Fine variety of color and long blooming season. Packet 50c.

Gaillardia Burgundy. The ideal of all red perennial Gaillardias. From June until autumn its shining wine red will flow across the border, cheerful and glowing as it brings new meaning to an old established favorite. Price, 35c a packet.

Henderson's Forget-Me-Not Collection of Perennials. 17 packets \$1.50. Once established are a constant source of pleasure. Among the most interesting plants in our gardens, a panorama of color, beauty and fragrance that will return year after year.

Henderson's Mt. Vernon Collection of Six Giant Snapdragons \$1.00. Efforts by plant hybridizers for a quarter of a century have rewarded us with these new varieties. Under favorable conditions will produce flower spikes two feet long. Their continuous blooming quality, ease of culture, and pure bright colors make them a worthy addition to the finest gardens. Although perennial in the south, when grown as annuals in the north they do splendidly. Spring sown seed produces flowering plants by July. Blooming till frost. Pkt. 25c.

Poppies, Double Featherball, a great globe, like slashed tissue paper or feathers, unique among the annual types. Price, 10c a packet, 1,000 seeds for 25c. **Giant Double, Brilliant Blend, Annuals,** too, with 4" to 5" double blossoms from purest white to most gorgeous crimson. Packet 10c; ounce, 50c. **Giant Shirley,** Immense, satiny blossoms that keep opening for weeks; crimson, orange, white, rose, slate blue or scarlet. Packet 15c; one each of eight colors for \$1.00.

Henderson's Invincible Aster, Royally Grand. Largest and most beautiful of all Asters. One of the great specialties for which the House of Henderson is famous throughout the United States are these, the highest achievement in China Asters. A superior race in every way. Very healthy type. Growth about two feet high—under careful culture often three feet. Producing on long stems massive chrysanthemum-like flowers of perfect form and graceful outline, exceedingly double to the very center. Last long, continuous bloomers. Decorative effect unapproachable. Gay, well-grown, average 3 1/4" across. Unsurpassed as cut flowers for interior decoration. Collection of Invincible Asters one package each of eight named varieties \$1.00.

Semple's Late Flowering Aster. Superior, late flowering, branching type. Begins blooming about the first of September. Collection of five separate colors 40c.

Henderson's Collection of Climbing Annuals for porches, pergolas, fences, et cetera. Collection of twelve kinds \$1.00.

Gold Medal Zinnias. A new Dahlia-flowered type, spectacular in appearance and strikingly vigorous. The blossoms of creamy yellow, lavender, rose, glowing red, arctic white or orange, crimson and gold, are four to five inches across and three or four feet above the ground. Price, 25c a packet, one each of the six colors for \$1.00.

Orchid Flowered Giant Spencer Sweet Peas. Henderson's Royal collection, chosen by the Floral Committee of the National Sweet Pea Society in London as the finest varieties of this glorious annual flower. The sixteen named varieties which compose it are the elect of a truly regal race. Each is a queen in its own right, a masterpiece of color, form and breeding. \$1.00.

Henderson's Garden Beautiful Collection of Annuals—25 kinds \$1.75. 12 kinds for \$1.00. For Garden Beds, Borders, et cetera.

For immediate display, ease of culture, these beautiful flowers that complete the cycle of their existence in one year are a joy and a treasure in every garden.

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Petunia Cockatoo. Dwarf and compact, a carpet of bloom in bed or border, vivid as the gorgeous bird whose name it bears. Velvety, deep violet purple blossoms touched with white spots and stars. A gay and vivid member of an already brilliant family. Price, 25c a packet.

Henderson's Cut Flower Collection—sixteen packets of garden annuals for \$1.25. Best long-stemmed annuals that will enable you to cut and gather large armfuls. Ideal for decoration, in either harmonious or contrasting color combinations.

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and its possessions, all vegetable, flower, and lawn seeds in the quantities stated and prices listed in our catalogue. We guarantee the safe arrival of your seeds in the United States. Orders are filled within twenty-four hours of their receipt.

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The seed used in planting a garden is relatively the least expensive item, although on its quality every other expense is predicated—whether of effort, time, or hope. The House of Henderson very early described its seeds as "tested seeds". The founder originated most of the methods used in seed testing, many of which are the standards today.

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The offerings alongside are but a glimpse into the vista of charm and beauty and flavor we wish for your garden. Our catalogue is the printed show window of our wares. In its pages we present descriptions carefully written and illustrations from actual photographs. Cultural directions are given wherever practical and, in addition, we offer pamphlets containing comprehensive cultural studies of many flowers and vegetable groups offered in our catalogue.

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Our catalogue-book that is a complete manual of "Everything for the Garden", will be sent without charge only to those who, in response to this advertisement, mention House & Garden.

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Henderson Riviera Broccoli. Introduced by us in 1928, this improved type is a vegetable par excellence, succulent and tender. Combining the marrow flavor of cauliflower with the delectable succulence of asparagus. From the finest Italian strains we have developed Henderson's Riviera. Unquestionably the best for our climate. Its healthy and obesity reducing qualities plus its extreme ease of culture and the fact that it thrives anywhere make it extremely important in every garden. Price, packet 20c, half ounce \$1.25.

New Sugarsweet Sugar Corn. Superlatively sweet, tender and wholly delicious—with a stem that makes a convenient handle for its greater table enjoyment! Very early, miniature in size and outstanding by every test. Price, packet 25c, a pint for \$1.00.

Numerous vegetable collections are shown in our catalogue: The Home Garden collection, for \$2.50, for an area 25' x 50'. The Suburban Garden Collection, for \$5.00, for a 50' x 50' area, plan and sheet of instructions included, 34 varieties. The Country Gentleman Collection, \$7.50, for a ground area 75' x 75', 46 varieties, will furnish a continuous supply of fresh vegetables all through the season as well as provide some for winter storage. Complete instructions.

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The most beautiful lawns in America are made with Henderson lawn grass seed. Failure of grass seed to germinate means that a lawn is a failure. The money you pay for seed is but a small part of the cost of building a lawn. On the quality depends success.

Whether you plan to make a wholly new lawn or renovate an old one, there is a right and a wrong way to go about it. The right way means positive and lasting satisfaction; the wrong is a waste of time, energy and money.

"How to Make a Lawn" is enclosed in every package of our grass seed. Estimate a quart per 100 square feet, a peck—5 lbs.—for 800 square feet, 5 to 6 bushels per acre. 50c a quart, \$3.00 per peck, other prices in catalogue. Delivered, transportation paid, in the United States.

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Henderson's Garden Guide and Record free with every order for seeds, bulbs, or plants, of \$3.00 or more. This convenient and intimate pocketbook of 88 pages, completely indexed, on request when accompanied by such an order; otherwise, 35c a copy. Complete cultural directions for vegetable and flower culture, suggested plans for various types of gardens, monthly garden guide with space for recording your garden's progress.



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ESTABLISHED 1892

The Gardening Guide

(Continued from page 99)

DECIDUOUS TREES (For Southeast and Gulf States)

NAME	HEIGHT	CHARACTER AND USE
Elm (<i>Ulmus</i>)	100'-125'	Thrives even in the lower South; in addition to the American Elm, <i>Pumila</i> and <i>Alata</i> may be used.
Oak (<i>Quercus</i>)	75'-100'	Laurel Oak (<i>laurifolia</i>), Willow Oak (<i>phellos</i>), and Pin Oak (<i>palustris</i>) are especially good.
Plane (<i>Platanus</i>)	80'-100'	Unsurpassed for street planting and for large shade tree.
Varnish Tree (<i>Koelreuteria</i>)	25'-35'	The popular "Golden-rain" tree; yellow flowers in August and September; resists drought; moderately long lived. D.
Nyssa (<i>Tupelo</i>)	40'-60'	Picturesque growth; fine fall color; moist soil.
Paulownia	35'-45'	Very large leaves; rounded spreading head; trumpet-like fragrant purple flowers, May-June.
Eucalyptus	100'-150'	Splendid, especially in lower South; many varieties; rapid growing; long lived; evergreen in milder sections.
Magnolia, Pink	15'-20'	The Saucer Magnolia; tender; prefers southern exposure; splendid lawn specimen.
Albizzia (Mimosa, Silk Tree)	25'-30'	Fern-like foliage like Acacias; pink fragrant flowers; hardy to southern New Jersey; fast grower.
Chinaberry (<i>Melia azedarach</i>)	30'-40'	Rounded top; dense shade; panicles of lavender flowers, yellow berries; very rapid growing; not long lived. D.

EVERGREENS (Southeast and Gulf States)

Pine (<i>Pinus</i>)	40'-100'	Numerous Southern species, some in dry sandy soil, others in swamp land; Long-leaf (<i>palustris</i>) and Loblolly, native "Yellow" P. do well under many conditions.
Araucaria	25'-30'	Tropical looking but fairly hardy; variety <i>Excelsa</i> graceful.
Cedar (<i>Cedrus</i>)	100'-125'	Tall graceful pyramids, unusual fern-like foliage; Atlas is hardest; Deodar fine; Cedar of Lebanon more tender; good drainage; sheltered position.
Eppalotaxus (Plum-Yew)	8'-30'	Hardy to Washington, in sheltered positions to Philadelphia; habit similar to Irish Yew.
Cryptomeria	30'-50'	Very Japanese in habit; dense rich green foliage, bronze in winter.
Juniper (<i>Juniperus</i>)	3'-40'	Northern Redcedar is native to Florida, also Southern type (<i>J. lucayana</i>); innumerable horticultural forms; foundation and group planting. D.
Yew (<i>Taxus</i>)	3'-40'	Many species and varieties, including native <i>T. floridiana</i> ; hedges, foundations, groups. S.
Torreya	40'-60'	Handsome, Yew-like foliage; shiny green foliage, dense growth; <i>taxifolia</i> in Southeast, <i>Californica</i> in Southwest.
Bald Cypress (<i>Taxodium distichum</i>)	50'-75'	Deciduous evergreen, narrow upright growth, drooping fern-like foliage; native of swamps but thrives on ordinarily dry soils.
Live Oak (<i>Quercus virginiana</i>)	40'-60'	Wide spreading branches, forming tent of dense shade; slow growth, long lived.
Holly (<i>Ilex</i>)	30'-40'	Splendid small tree for landscape planting; native and exotic varieties thrive; individual specimens; hedges, mixed planting.
Magnolia <i>grandiflora</i>	20'-40'	Typical tree of the South, producing heavy shade; street planting; individual specimens; deciduous towards northern limits.
Acacia	10'-50'	Beautiful Fern-like foliage; yellow, lemon, or cream blossoms; evergreen in mild climates graceful and charming.

EVERGREENS SHRUBS (Southeast and Gulf States)

<i>Abelia grandiflora</i> (Glossy Abelia)	5'-6'	Charming, easily grown; foundation planting, border, individual specimen; tiny Arbutus-like flowers, mid-summer to frost; deciduous toward northern limits; hardy to southern New Jersey.
Coral Ardesia (<i>A. crenata</i>)	5'-6'	Decorative foliage coral red berries; quite tender; lower South and Gulf S.
<i>Aucuba japonica</i> (Gold-dust Plant)	6'-10'	Spreading, shrubby; broad green leaves spotted gold; hardy to southern New Jersey. S.
Azalea	5'-10'	Wide variety; most prefer sun, some in partial shade; Indica especially fine; acid soil; summer mulch. S.
<i>Camellia japonica</i>	10'-20'	Small tree, shiny evergreen foliage, gorgeous blossoms in early spring; fairly moist soil, sheltered, tolerates partial shade.
Cestrum	8'-12'	Spreading, with climbing tendency; fast growing, slender, needs support; tender; lower South; Nocturnum for night fragrance.
Cotoneaster	2'-6'	Excellent for foliage, flowers and berries; many hardy deciduous sorts are evergreen here. D. R.
Privet (<i>Ligustrum</i>)	10'-20'	Several glossy leaved evergreen varieties, such as <i>Lucidum</i> ; hedges, mixed borders, foundations; extremely satisfactory. S.
<i>Lantana camara</i>	3'-6'	For low growing hedges; continuous bloom; foundation planting, mixed shrubby border.
Nerium Oleander	12'-15'	Slender, upright shrub, clusters of single or double pink flowers; fragrant; some shade; specimens, or shrubby border; requires pruning. D.
Pittosporum	6'-20'	Large shrub or small tree; good proportions and foliage; white fragrant flowers; especially near coast.
<i>Nandina domestica</i> (Heavenly Bamboo)	6'-8'	Dense, shrubby; Fern-like foliage, bronze in winter; unusual, easy, satisfactory; hardy to southern New Jersey. S.

DECIDUOUS SHRUBS (Southeast and Gulf States)

Crape Myrtle (<i>Lagerstræmia</i>)	8'-25'	JUNE-AUG. Broad, rounded, spreading; cut back and water freely for second blossoming; especially good in Gulf States.
Hibiscus, Chinese (<i>H. mutabilis</i> ; <i>rosa sinensis</i>)	5'-25'	MAY-DEC. Tender branching shrub, excellent hedge or individual specimen; small tree in sub-tropics; Maple-like leaves, very large flowers all season.
Jasmine (<i>Jasminum</i>)	3'-12'	MAR.-NOV. Many varieties; mostly fragrant; semi-climbers; foundation plantings; porch, pillars, mixed border.
Coral Bean (<i>Erythrina</i>)	2'-3'	MAY-AUG. Small shrub, long sprays of Pea-like blossoms; red berries; very decorative.
Pomegranate (<i>Punica</i>)	3'-12'	APR.-SEPT. Showy orange-scarlet flowers; exceptionally ornamental fruit; dwarf form excellent low hedge; groups; pot or tub plant for porch; <i>granatum</i> hardy to Washington, D. C.
Tamarix	10'-20'	MAR.-OCT. Shrub or small tree; willowy branches, feathery foliage, delicate sprays of pink bloom; varieties for succession; back of border; hedges; stands salt winds. D. S.
Southern Crab (<i>Malus [pyrus] angustifolia</i>)	10'-20'	APR.-MAY. Beautiful native shrub, fragrant pink blossoms in early spring; easy; shrubby border; specimens.
Chaste-Tree (<i>Vitex</i>)	15'-20'	JULY-SEPT. Bushy, upright; panicles of lavender flowers; new variety, <i>Macrophylla</i> ; fine for late bloom. Also shrubs from Northeast and Northwest.

(Continued on page 136)

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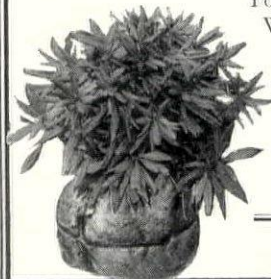
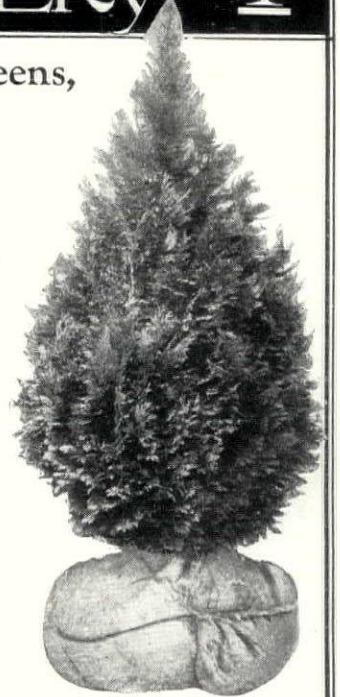
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At left: Hybrid Rhododendron Balled for Shipping

Above: Lawson Cypress Balled for Shipping

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Above: Coldwell "Twin-Thirty" motor lawn mower. Mows and rolls simultaneously 6 to 8 acres a day on one gallon of gasoline. Riding sulky may be had as extra equipment.

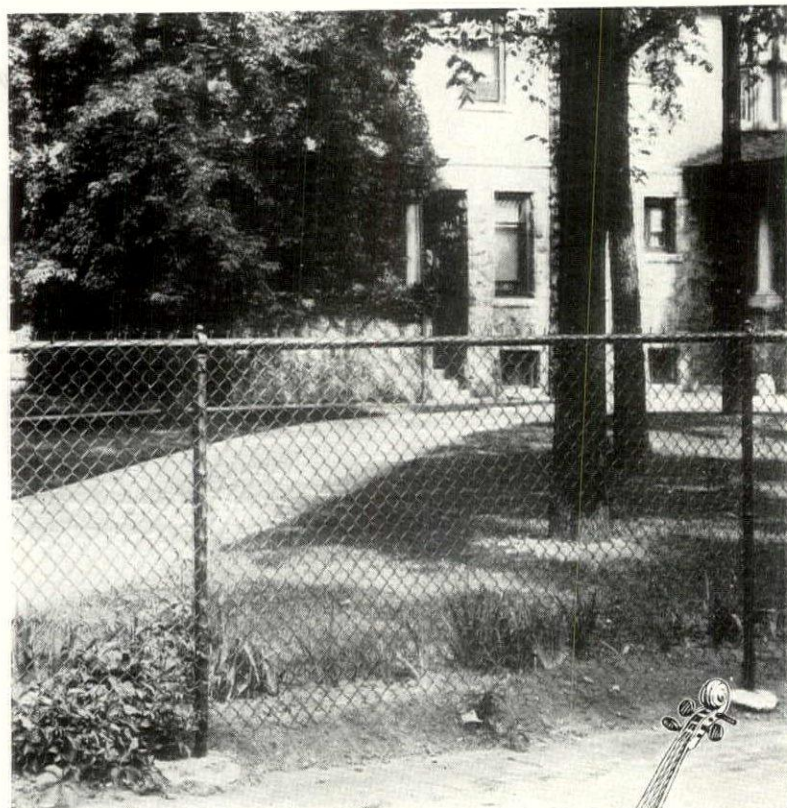
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The Gardening Guide

(Continued from page 134)

VINES (Southeast and Gulf States)

NAME	HEIGHT	CHARACTER AND USE
Coral Vine (<i>Antigonon</i>)	25'-35'	Climbing tendrils. Tender; bulbous root; one of the best for lower South and California; continuous bloom; graceful, delicate; porches; trellises; tender to frost but starts again. S.
Jasmine (<i>Jasminum</i>)	8'-12'	Semi-climbing shrubs. Several varieties; winter or early spring flowering. S.
Carolina Jessamine (<i>Gelsemium sempervirens</i>)	20'-30'	Twining. Native; small fragrant yellow flowers in January or February; evergreen; thickets; trellises, verandas; easily transplanted.
Bougainvillea	20'-40'	Paper-like, long lasting crimson flowers, April to November; summer houses or other high supports; if injured by frost cut back. Crimson Lake best variety. D.
Catsclaw Trumpet (<i>Bignonia unguis-cati</i>)	20'-30'	Claw-like tendrils. Evergreen Bignonia with pointed leaves; withstands slight frost; pergola, summerhouses.
Allamanda (<i>A. hendersoni</i>)	25'-35'	Twining. Quantities of beautiful deep clear yellow 3" blossoms; long season; long, narrow shining leaves.
Lantana (<i>L. sellowiana</i>)	6'-8'	Semi-climbing, trailing. Semi-climber, on trellis or other support; banks or walls; heads of small lavender flowers.
Plumbago capensis		Semi-climbing, trailing. Continuous bloomer, attractive blue flowers; ground or bank cover or low trellis.
Cup-of-Gold Flower (<i>Solandra guttata</i>)	15'-25'	Twining. Gorgeous blossoms, deep ochre yellow; broad leathery leaves; vigorous; porch; house-wall, tree, pergola.
Climbing Fig (<i>Ficus humila</i>)	10'-15'	Climbing. Small shining heart-shaped leaves; delicate tracery over mason work or solid cover. D.
Asparagus (<i>A. plumosus</i>)	10'-30'	Twining. Thin wiry stems. Fern-like foliage; beautiful vine, and splendid for use with cut flowers. S. Also practically all suggested for Northeast and Northwest.

PERENNIALS AND ANNUALS (Southeast)

NOTE: The same perennials and annuals used in the more northern States are available for the South. The culture is somewhat altered by climatic conditions. Many of the hardy annuals become perennials. These and many of the true annuals may be planted in late fall—October-December, instead of in the spring as in the North.

Many of the perennials, on the other hand, are best treated as annuals. Some of them do not thrive where they can not have the long period of rest accorded by northern winters. Started early they will flower satisfactorily the first season.

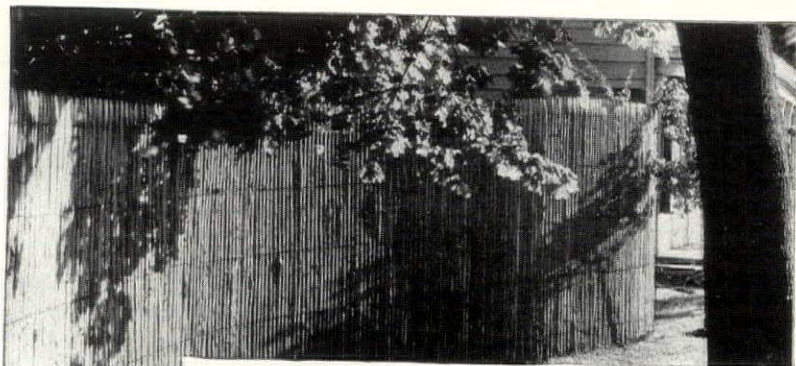
DECIDUOUS TREES (For the Southwest)

NAME	HEIGHT	CHARACTER AND USE
Elm (<i>Ulmus</i>)	50'-100'	Stands considerable drought; English remains green longest; Chinese Elm does well; <i>parvifolia</i> is evergreen in South. D.
Birch (<i>Betula</i>)	40'-60'	Excellent; European and Canoe species do well.
Ginkgo	50'-75'	Irregular spreading branches; good shade; good color throughout season.
Liquidambar (Sweet Gum)	50'-75'	Pyramidal; Maple-like foliage; good substitute for Maple.
Poplar (<i>Populus</i>)	50'-100'	Very fast growing for shade and temporary use; Balm of Gilead much more permanent; Carolina Poplar for Arizona and alkaline soils. D.
Arizona Ash (<i>Fraxinus velutina</i>)	25'-30'	Extremely rapid grower, doing well in alkaline soils and drought; also near coast. D.
Cottonwood	50'-75'	Thornbush variety for Arizona and inland; extremely fast grower; excellent shade. D.
Pagoda Tree (<i>Sophora japonica</i>)	50'-60'	Large, spreading, graceful; light green foliage; drooping white flowers; easily grown; any soil, excellent shade.
Mulberry (<i>Morus</i>)	15'-30'	Several varieties, including Silk Worm Mulberry (<i>multicaulis</i>); Kingan has less fruit but is best for Arizona and inland. D.
Coral Tree (<i>Erythrina crista-galli</i>)	15'-30'	Small tree usually about 15'; <i>E. humeana</i> considerably taller; corky bark; crimson or scarlet butterfly-like flowers; unusual garden specimen.

EVERGREENS (Southwest)

Coniferous Sequoia	50'-100'	Redwood and Big Tree do quite well; beautiful even when young; avenue and roadside, individual specimens for large grounds.
Cedars (<i>Cedrus</i>)	75'-100'	Many varieties; Deodar successful over wide range; vigorous grower, dignified but graceful.
Incense Cedar of Cal. (<i>Libocedrus decurrens</i>)	30'-50'	Beautiful and satisfactory evergreen; branches in whorls; hardier than <i>Arancaria</i> .
Cunninghamia (Chinese Fir)	40'-50'	Narrow pyramidal, bluish green foliage; good for inland where some others will not thrive. D.
Arizona Cypress (<i>Cupressus arizonica</i>)	30'-40'	Tall, narrow, dense column; deep green; best in northern California; also dwarf form 6' to 8'.
Montezuma Cypress (<i>Taxodium mucronatum</i>)	50'-60'	Beautiful, somewhat similar to Redwood but more spreading and graceful; finely cut aromatic foliage.
Pine (<i>Pinus</i>)	40'-60'	A number of native and exotic species do well under southern Cal. conditions; especially Monterey Pine (<i>P. radiata</i>); dense growth, light green; Torrey Pine, Japanese, thrives near coast.
Fern Pine (<i>Podocarpus elongatus</i>)	12'-15'	Unusual bushy evergreen, light green, finely cut Fern-like foliage; easy, wide range. S.
Broad-Leaved Eucalyptus	25'-125'	Fine and satisfactory tree; completely naturalized; wide range of form; individual specimens, tall screen; naturalistic planting.
Camphor Tree (<i>Camphora</i>)	75'-100'	Big but slow growing, uniform shape; dense bright green glossy foliage with spring coloring; street parkings and lawn specimens.
Pepper Tree (<i>Schinus</i>)	40'-50'	Spreading rounded head; drooping branches, beautiful foliage; pendant clusters of rose-colored berries; street parkings; lawn specimens; landscape groups. D.
California Live Oak (<i>Quercus agrifolia</i>)	40'-50'	Native, picturesque, dense spreading; sharply indented leaves; rapid grower, beautiful at all stages; good for shade; also smaller species, Canyon Oak; good lawn specimen in dry locations.

(Continued on page 138)



Seventeenth Century Charm . . .
Twentieth Century Protection . . .

French Provincial Woven Wood Fence

Imported from Southern France and bearing the storied beauty of historic chateaux . . . this sturdy "rustique" enclosure imparts quaint old-world charm to the modern residence.

Combining Continental grace with American efficiency, it effectively screens the home from annoying highway lights and disturbances, protects the grounds and acts as an ever watchful guardian of privacy.

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*Teas and Hybrid Teas Hybrid Perpetuals
Chinas Moss Roses Sweetbriers
Climbing Roses, and Species*

All our Rose plants are field-grown, low budded, well matured, and ready to burst into abundant bloom in your garden.

Roses by Bobbink & Atkins

Our catalogue describes and prices nearly a thousand Roses. Their merits and demerits are clearly stated. All are classified and arranged to make selection easy. A copy of the new edition will be mailed on request to those who intend to plant Roses.

BOBBINK & ATKINS Rutherford, New Jersey

Please mention House & Garden when writing for the Rose book.

WHY BUGS LEAVE HOME

Trade Mark



Registered

WILSON'S O. K. PLANT SPRAY

Don't allow insect pests to destroy the hard work of long months. Protect your plants, shrubbery and flowers by the use of Wilson's O. K. Plant Spray. . . . "The Insecticide Supreme"

Recommended by Officers of The Garden Club of America.

1 Quart \$1.00 1 gallon \$3.00 5 gallons \$12.00 10 gallons \$20.00.

Then there is Wilson's SCALE-O . . . the powerful *dormant* spray so necessary to the successful growth of fruit and other trees. Scale-O kills Scale insects and eggs—even in Winter. Mixes readily in cold water . . . covers very rapidly and evenly. 1 Gallon \$2.00; 5 Gallons \$9.00.

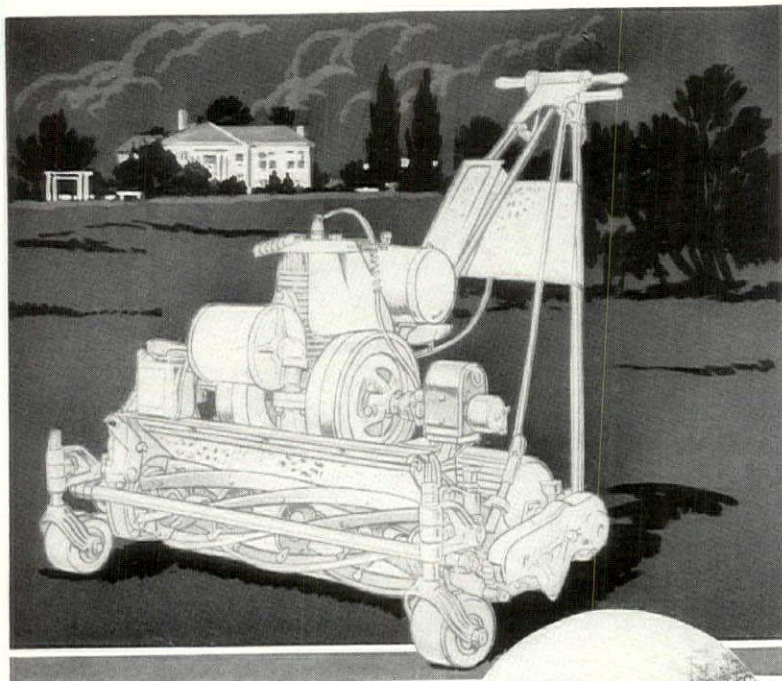
WILSON'S AWING (Pyrethrum Spray) non-poisonous, highly concentrated PYRETHRUM spray. Easily controls both sucking and chewing insects of the more resistant type such as Japanese Beetle, Mexican Bean Beetle, Mealy Bug, Red Spider, Rose Chafer and Slug, Aster and Dahlia Beetle, Cabbage Worm, White Fly and many others. Complete, requiring only a dilution with water.

"Insects and Their Control" is the title of a new book by Andrew Wilson illustrating the various insects and scale that attack plants and trees, with directions for their control. Price \$2.50 postpaid.

Andrew Wilson
Dept. H3

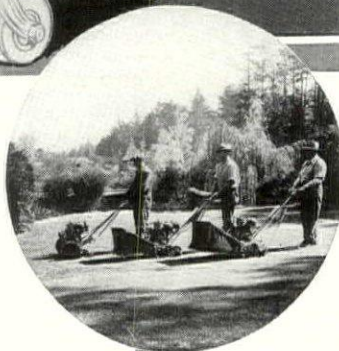
SPRINGFIELD

NEW JERSEY

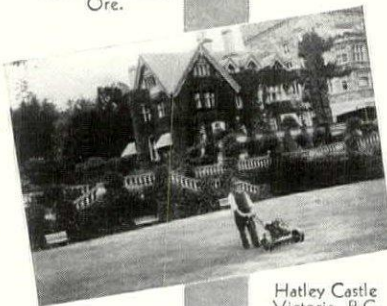


The Jacobsen Roller Mower It Cuts - It Smooths

The Jacobsen "Estate" power mower does two things at once. It cuts. It rolls. It is a "turf-builder," a lawn conditioner. Its large traction rollers do not pack or scar the lawn. Its many refinements give it preference on the world's finest estates. Mower is built in two sizes—24" and 30."



Lloyd Franks
Estate, Portland,
Ore.



Hatley Castle
Victoria, B.C.

a Jacobsen-bred Aristocrat of the Lawn

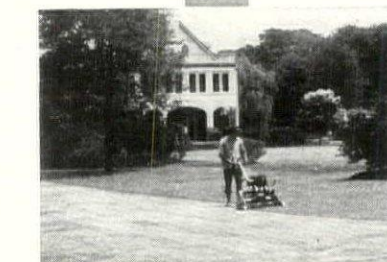
A true replica of the famous Jacobsen Putting Green Mower. Typical Jacobsen features include auto-type differential; high speed reel for finer cutting; separate clutches for reel and traction unit controlled from steering handle. Jacobsen-built motor with a world of dependable power.

FREE Demonstration

Take nothing for granted. Let us show you on your own lawn without cost or obligation. You name the date. We demonstrate the "velvety" cut of the Jacobsen. There is a Jacobsen for every type of lawn—for cutting one to fifteen acres per day. Sales and service everywhere. Write today.

JACOBSEN MFG. CO.

743 Washington Ave., Racine, Wis.



Edgar B. Stern
Estate,
New Orleans,
La.



1-31

JACOBSEN MFG. CO., 743 Washington Ave., Racine, Wis.
Gentlemen: I am interested in:

☐ Jacobsen Catalog and prices. The size of my lawn is.....

☐ Free demonstration particulars.

Name

Address.....

**Clip and
Mail
This
Coupon**

The Gardening Guide

(Continued from page 136)

EVERGREENS (Southwest)

NAME	HEIGHT	CHARACTER AND USE
She-Oak (Beefwood) (<i>Casuarina</i>)	30'-100'	General appearance somewhat like Pine; excellent for unfavorable locations, withstanding heat, cold, dry weather, alkaline soil; street. D.
Silk Oak (<i>Grevillea robusta</i>)	75'-100'	Graceful tree, with very beautiful Fern-like foliage; peculiar yellow flowers 6" long; fast grower, good lawn specimen; drought resistant. D.
Carob (<i>Certonia</i>)	35'-40'	Symmetrical form; dense glossy foliage the year round; deep rooted; long lived; street planting; individual specimens. D.
Flame Tree (Bottle T.) (<i>Sterculia acerifolia</i>)	40'-50'	Maple-like evergreen leaves, stunning background for the red cup-shaped blossoms on scarlet stems; unusual decorative tree.
Athel Tree (<i>Tamarix articulata</i>)	25'-30'	An evergreen Tamarix, typical slender growth; gray-green foliage; hedge, screen, and specimen for hot, dry sections. D.
Jacaranda	25'-30'	Handsome flowering tree, symmetrical growth, fanlike foliage; clusters of light blue flowers in spring; decorative; will not stand much below freezing.
Parkinsonia (Palo Verde) (Jerusalem Thorn)	12'-15'	Showy tree, unusual form, drooping, feathery, reedlike branches; bright yellow flowers; early summer; excellent protective hedge or screen for adverse conditions. D.
California Laurel (<i>Umbellularia</i>)	20'-25'	Dark green leaves, long and narrow, similar to Eastern Laurel; yellow flowers; black fruit; shrubby border or naturalistic effect in landscape planting. <i>Also most of those for Northwest and Southeast.</i>

EVERGREEN SHRUBS (Southwest)

California Lilac (<i>Ceanothus</i>)	8'-15'	Upright or spreading, bushy; beautiful native; wide range of species and new horticultural hybrids; shrubby border and groups; some hardy to Oregon.
Bottle-brush (<i>Callistemon</i>)	10'-20'	Exotic but thoroughly at home in southern California; rapid growing; heat and alkaline soil; cylindrical flowers of scarlet, crimson, or orange; garden decorations and color masses. D.
Nerium Oleander	15'-20'	Upright, slender, succeeding throughout California and in Arizona; mixed shrub border, individual specimens in garden; new named varieties. D.
California Coffee- berry (<i>Rhamnus</i>)	12'-15'	Native, deep green foliage; wide range of soil conditions, sun or partial shade. <i>R. purshiana</i> similar but taller; black berries; mixed border or naturalistic effect. S.
<i>Tamarix, parvifolia</i>	12'-15'	Slender branches; feathery foliage; pink flowers in early summer, evergreen in Southern portions. D.
Natal Plum (<i>Carissa</i>)	6'-8'	Dense, dark, glossy green foliage; fragrant pure white waxy flowers; succeeds near coast and inland; edible Cranberry-like fruit; stands shading well; splendid hedge or foundation planting; or for mixed border.
Cistus (Rockrose)	4'	Compact, bushy; pure white crimson spotted or lilac pink flowers; drooping; good for walls, banks, foreground of border. D.
Fuchsia	3'-5'	Slender drooping shrubs, pendant flowers; shade and moist soil. S.
Lantana	2'-6'	Tall growing and dwarf forms; former for hedges, fences, shrub border; latter for garden edging, bordering walks; everblooming; full sun.
<i>Cantua buxifolia</i>	Trailing	Trailing shrub, bright red tubular flowers; trailing habit; banks, walls or terraces. <i>Also those for Southeast and Northwest</i>

VINES, PERENNIALS, AND ANNUALS (Southwest)

NOTE: See list of Vines suggested for Southeast and Northwest, and remarks concerning Perennials and Annuals under Southeast Section.

House & Garden's Bookshelf

NEW BUILDING ESTIMATORS' HANDBOOK. By William Arthur. New York: The Scientific Book Corporation.

WEAVES AND DRAPERIES, CLASSIC AND MODERN. By Helen Churchill Candee. New York: Frederick A. Stokes Company.

WHILE essentially a manual for the architect or someone actively connected with the building trades, this excellent volume has much data that will be of interest to the home-builder or prospective home-builder who wishes to know the why, wherefore and how-much of all things about a house.

Although we would be the last to suggest that a man having a house erected could take this little book in hand, and by its aid check every expense item—he can from it certainly gain an idea of the manner in which the various contractors go about estimating materials needed and the work they can accomplish in a given time.

As a ready reference volume to be kept at hand and used for estimating the cost of repairs, additions or new fixtures the *New Building Estimators' Handbook* will prove its worth.

J. F. H.

"WHEREVER hangs a drape, there hangs a tale. But it is not even considered until one cares enough about the mute thing to examine into its past, into the reasons why it is of that particular weave, color and design."

With such a beginning one can easily guess that this book is filled with delightful as well as instructive matter. And it is. Alluringly easy to read, it tempts you on and on until you find yourself plump up against the "Index" without realizing the book has come to an end. Men, women, and things are so interwoven in its text that it is hard to detach the human element from the thing. Such facility is only possible to one thoroughly at home with design—that fascinating "Open Sesame" to all the industrial arts.

The book takes you pretty much into
(Continued on page 140)



How to Prevent Mistakes

—Especially with Rock Gardens—



CREeping PHLOX

Miniature daisy-like flowers in white, pink or lilac. Grows like a five-inch thick mat completely covering the ground. Price for any of the 3 colors: 3 for 85¢, 12 for \$2.50, 100 for \$18.

MISTAKES in *where* you plant, *when* planted; and *how* planted. Any one of the three may delay your results a year, with hardy plants or rock plants. Or even mean a complete failure. So that's why the new Wayside Gardens Catalog of Hardy and Rock Plants tells exactly how to secure success with each plant. Each one has its own *when*, *where* and *how* directions. No other catalog published in this country goes into such details.

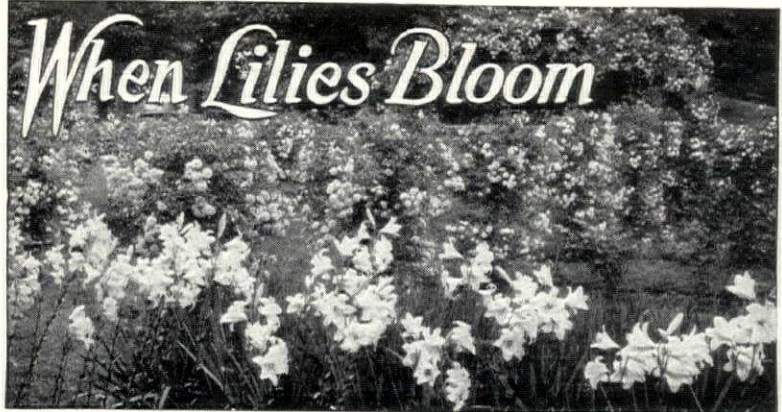
Likewise from nowhere else can you secure such two year old, strictly field grown plants, having as sturdy constitutions or as abundant root growth. Quality plants in every way. Satisfaction unreservedly assured. Any dissatisfaction we promptly make good without haggling or discussions. Send for catalog. This spring make sure of buying right and planting right.



Wayside Gardens

MENTOR, OHIO

Reg. U. S. Pat. Office



When Lilies Bloom

Gardens never lose their charm

Where lilies bloom, these "aristocrats of the garden" give that distinction so much sought in the perennial garden.

Our thirty-five years experience in the growing of Hardy Lilies ensures your success. Five pages of our 1931 Garden Book are devoted to Hardy Lilies and we give a special three-page sheet of cultural directions with each order. Here is a selection of

Lilies Suitable for Spring Planting

that will produce flowers from June until Autumn


\$14 COMPLETE COLLECTION
(Six of each)

HALF COLLECTION **\$7.50**
(Three of each)

EARLY	MEDIUM	LATER FLOWERING
<i>L. hansonii</i> —Orange	<i>L. regale</i> —Pink and White	<i>L. batemanniae</i> —Apricot
<i>L. elegans</i> —Red	<i>L. longiflorum</i> —White	<i>L. auratum</i> —Gold-banded
<i>L. croceum</i> —Buff	<i>L. superbum</i> —Orange yellow	<i>L. speciosum</i> —Pink

OUR Garden Book abounds with many similar offers of Ferns and Wildflowers, besides a large assortment of the choicest Hardy Perennials. Now is the time to order for Spring planting. Send for our Garden Book. It is FREE. Let it aid you in your selection.

F. H. HORSFORD, Box H, CHARLOTTE, VT.



Only One Collection to a Customer

Most Sensational Lilac Offer Ever Made

12 VARIETIES of BRAND'S OWN-ROOT Lilacs

Direct From the World's Greatest Lilac Collections

This unusual introductory offer includes 12 of BRAND'S beautiful varieties... all colors, all named, all different! Regular price \$12. Special to those who order NOW (1 collection to a customer)... **\$7.50** Postpaid

BRAND'S special Lilac offer is the choice of 100,000 named French Lilacs... over 100 varieties... all grown on their own roots. None of BRAND'S Lilacs are budded or grafted on privet or common lilac roots. "Own-Root Lilacs" is a Brand specialty.

BRAND'S Beautiful PEONIES

Peonies dug in the fall and carried through the winter in BRAND'S cold storage will thrive and flourish when planted in the spring. Over 60,000 roots from which to select your favorite varieties.

FREE illustrated catalog in COLORS... BRAND'S Peonies, Lilacs, and other beautiful perennials. Write for your copy TODAY.

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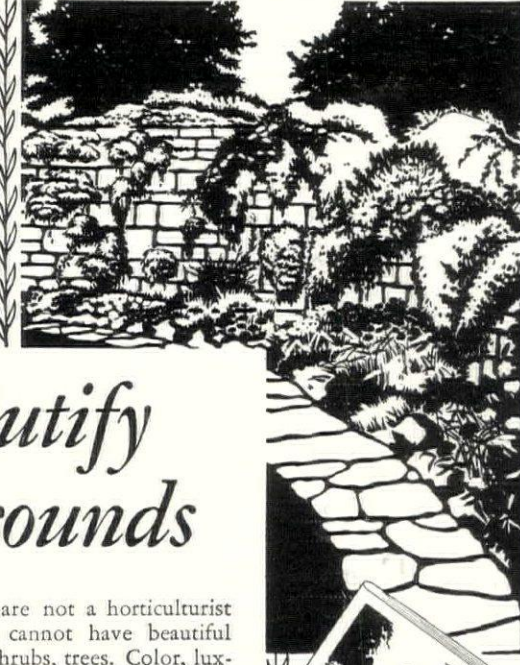
BRAND'S Peony Manual

Most complete Peony Book ever written—history, care, description, all outstanding varieties. FREE with each order for \$5 or over.



BRAND PEONY FARMS, Inc.

It is really EASY to beautify your grounds



free book

This book is free in New England, N.Y., N. J., Pa., Del., Md. Elsewhere: 25c.

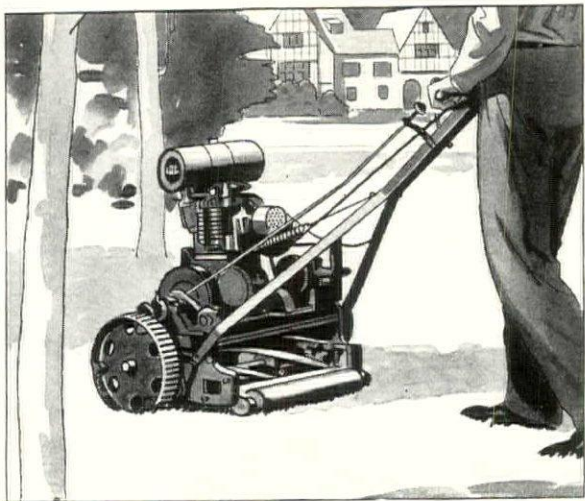
JUST because you are not a horticulturist doesn't mean you cannot have beautiful plantings. Flowers, shrubs, trees. Color, luxuriance, grace. "The Easy Way to Beautiful Plantings" tells you how! This new 40-page catalog describes over 1200 gorgeous flowers, shrubs and trees—and helps you to *choose* and *arrange* the ones best suited for *your* grounds. It shows you how to make base and boundary plantings; to beautify entrances, roadways and walks; to plan a rose garden, a rock garden, a trellis. It gives you a wealth of *helpful* information. Send for a copy—*free* as noted under picture.

THE BARNES BROS. NURSERY COMPANY
Box 21, Yalesville, Connecticut

The Original BARNES BROS. NURSERY

Established 1890

NEW POWER, NEW SPEED plus OLD RELIABILITY



FOR SMOOTHER, HEALTHIER LAWNS —AND UNBEATABLE EASE OF HANDLING

Surplus power and convenient controls provide extreme flexibility in the new Ideal Power Mowers. They can be slowed down to a snail's pace for easy turning—instantly accelerated to a fast walking speed for open cutting.

Mechanical features include: automatically operated valves . . . automobile type valve tappet mechanism . . . Timken bearing crankshaft . . . foolproof lubrication . . . effective cooling system. *There is no finer mower motor.*

Two sizes of *wheel* type: 20, 25-inch cut . . . Two sizes of *roller* type: 22, 30-inch cut . . . they have the weight for development of real sod, by the English rolling system, and are easy to handle because of greater power. Your request brings illustrated brochure on lawn maintenance equipment.



ALMOST HUMAN

For larger, foliated grounds, the agile Triplex is unbeatable. Almost human—it dodges all obstructions—yet cuts as many as 35 acres in one day. Simple to operate. Ask about the Triplex.

IDEAL POWER LAWN MOWER COMPANY
403 Kalamazoo St., Lansing, Mich.
FACTORY BRANCHES

413 W. Chicago Ave.,
Chicago, Ill.

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Brookline, Mass.

161 Vester St., Ferndale (Detroit) Mich.

Dealers in all principal cities

THE NEW IDEALS

5
SIZES

Garden Company To Keep

(Continued from page 59)

PINKS

Selected by Robert S. Lemmon
Dianthus Etoile de Lyon.
Dianthus Hedderwigi (mixture).
Dianthus Plumarius florepleno
(mixture).
Dianthus speciosus.
Dianthus deltoideus Brilliant.

PEONIES

Selected by Mrs. Edward Harding
Ama-na-so-de—the best pink.
Isami-jishi—white.
Departing Sun—a large and distinguished light red.
Fuyajo—a dark red of medium size.
Aletta—a large, superb pink without the blue tinge, a strong grower.
Le Cygne—white, with a faint pleasant odor.
Glorious—white, exceedingly fragrant.
Lady Alexandra Duff—a fragrant pink.
Walter Faxon—the loveliest pink of all. Fragrant.
Mrs. C. S. Minot—mauve pink melting to cream center.
Editor's note. To these we would add Alice Harding—named for Mrs. Harding, a wonderful creation of beautiful form and delicate rare tints.

PHLOX

Selected by D. M. Andrews
Colorado—scarlet red.
Osceola—rose flushed scarlet.
Robin Hood—medium dwarf of intense crimson.
Tanager—bright rose.
Silverton—clear, pale lavender.

SIBERIAN IRIS

Selected by B. Y. Morrison
Snow Queen.
Blue Queen.
Kingfisher Blue.
Harry's Blue.
Emperor.

"I should avoid like a plague all of the varieties that savor too much of red purple."

VIOLAS

Selected by T. A. Weston
Jersey Gem—violet blue.
Jersey Belle—true mauve.
Jersey Jewell—pansy violet with large flower.
White Jersey Gem—pure white.
Apricot Queen.

In the way of a sweet-scented true Violet for early spring and late fall blooming is the pure rose pink Rosina. It is as hardy as the native Violets.

WATER LILIES

Selected by J. D. Eisele

HARDY

Marliacea albida—fragrant white.
Marliacea chromatella—bright yellow.
Marliacea rosea—soft rose pink.
Odorata Rose Aray—deep cerise pink, fragrant.
James Brydon—rosy crimson with silver sheen on reverse of petals.
TENDER
Pulcherrima—light blue with yellow center.
Mrs. Edward Whitaker—large flowered, sky blue.
Mrs. George H. Pring—snow white with young leaves blotched brown.
Frank Trelease—dark crimson.
Ruba Rosca—large rosy red.

AMERICAN WILD FLOWERS

Selected by Herbert Durand
Aquilegia—mixed.
Asclepias tuberosa—orange to red and crimson.
Asters—*Parmisoides*, white, and *Spectabile*, large violet-purple.
Eupatorium coelestinum—lavender blue.
Helenium hoopesi—orange. Collected plants are best.
Lilium canadense and Superbum.
Tobelia cardinalis.
Pentstemon—*glaber*, a clear blue with rosy throat, and *Secundiflora*, deep blue.
Polemonium caeruleum or richardsoni—bright blue.
Silene regia—cardinal red. Raise from seed.

House & Garden's Bookshelf

(Continued from page 138)

all countries and all centuries, in pursuance of its subject of textiles—woven, painted, printed, and stenciled. Silk, cotton, linen, wool, and rayon are all considered, not alone for their design and weave but for their suitability as hangings and upholstery, and much practical instruction is conveyed.

The chapter headings deserve reviewing: "Originals and Copies"; "Familiar Weaves, Weavers and Ornament"; "Copts and Moslems"; "Spain. Peru. Cloth of Gold"; "Silk and Its Succession"; "Effects of Early Renaissance"; "Renaissance Textiles"; "The French National Style"; "Development Under Louis XV"; "Until the Revolution"; "Practicalities"; "The Directory and the Empire"; "Tapestries Gothic"; "Tapestries in

the Renaissance"; "Tapestries Pre-Gobelins"; "Tapestries in France"; "Printed Cotton and Linen"; "Draping of Windows and Beds"; "Modernistic Textiles".

The Chapter on "Spain. Peru. Cloth of Gold" is as fascinating as avowed romance. The 65 illustrations are mostly old friends but, like any kind of illustration of Rembrandt's *Night Watch*, the 16th Century Persian brocade of the colored frontispiece gives never-failing delight.

But we do wish the book had not made Alexander the Great a Roman Emperor, and taken Charles V to the Field of the Cloth of Gold. He should have gone of course, but he did not. We are sure, very sure that Helen Candee knows better, but whom shall we blame?

G. G. G.



**A Rustic Touch ---
An Added Charm**

Anchor Cedar Fences are to your home what a frame is to a picture. They protect its beauty and add a rustic touch, which is an added charm.

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Consult your Classified
Telephone Directory for
local representative.

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CEDAR FENCE



**Guaranteed True to Name
Sure to Grow**

The greatest boon to plant life ever discovered is a product of our research department.

Three years of experimentation by Mr. Wilson and his associates has developed our "Seal Kraft" process by which Roses may be kept perfectly healthy for weeks under the most unfavorable conditions. This gives absolute assurance that every "Seal Kraft" Rose will arrive as fresh as if just dug from your garden and will start to grow immediately after planting.



**12 Strong, healthy "Seal Kraft"
Roses \$5.88**

Add 25 cents for packing and postage.

VARIETIES AS FOLLOWS:

Los Angeles, coral-pink; White Killarney; J. L. Mock, rose-white; Mrs. A. Ward, Indian-yellow; Frau Karl Druschki, carmine-pink; Columbia, deep pink; Gruss an Teplitz, dark scarlet; Souv. de C. Pernet, yellow; Etoile de France, velvety red; Radiance, pink; Sunburst, cadmium yellow; Mme. Butterfly, salmon-flesh.

Send for our complete list of varieties and prices.

WILSON'S TREE FARMS, Inc.
1 Allen Place
Manchester, Conn.

FREE
Giant Flowering
Grafted French
LILAC
Value \$2.00

Sent with every order
received before April 1.
Shipment will be made
at proper time for plant-
ing.

**A DODSON
BIRD
SANCTUARY**



BIRDS! How fascinating to have them and how easy, too. Their cheery songs and beauty bring untold happiness to your entire household. The Dodson method enables you to attract only beneficial song birds, and they repay you for their sanctuary by destroying harmful insects, moths and mosquitoes and other flying insect pests. They capture mosquitoes by the thousands.

Joseph H. Dodson, America's foremost bird authority, will be glad to confer personally regarding the construction of a sanctuary or the proper location of bird houses on your property. Mr. Dodson has supervised the building of bird sanctuaries for E. W. Seiberling, Henry Ford, John D. Rockefeller, Thomas Edison, Harvey Firestone, Drs. Mayo and many others of prominence. Also country clubs such as Westchester, Baltimore, Olympia Fields, Onwentsia, etc.

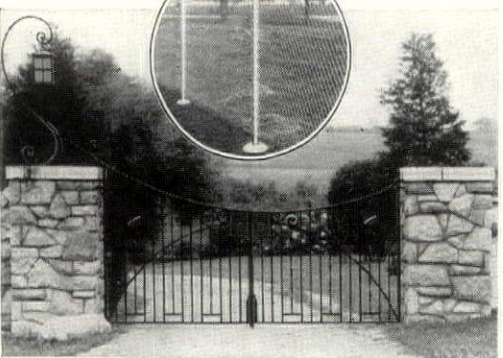
Even a small garden may be made a haven for our beautiful birds. Write Mr. Dodson today for complete information. A book "YOUR BIRD FRIENDS AND HOW TO WIN THEM" will be sent to those who write.

JOSEPH H. DODSON, Inc.
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MODERN FENCES for MODERN HOUSES

The modern spirit is in the graceful sweep of this distinctive Gate by Stewart. Stewart Fence styles have been in good taste, year after year, since 1886. Stewart will gladly co-operate with your architect or assist you with your Fence problems.

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IRON WORKS CO., Inc.
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**Stewart
FENCES**

The beauty of Stewart Wrought Iron and Chain Link Wire Fences is permanent. For 45 years Stewart has been fencing the country's finest houses and acres.

The structural quality of Stewart Fences is enduring. They last for ages.

Stewart also creates and manufactures Balcony, Porch and Step Railings, Grilles and other Ornamental Iron Work.

Write for catalog.

**A Garden Full
of Gladioli
for \$2.00**



The Gladiolus is one of the most satisfactory flowers grown and there is no reason why every family cannot enjoy this beautiful flower—it is of easy culture.

They bloom from July to frost if you plant a few bulbs each month from April to July.

For Two Dollars we will send 50 Bulbs of our Grand Prize Mixture, which covers every conceivable shade in the Gladiolus kingdom.

Each year we sell thousands of these bulbs and have received numerous testimonials as to their merits.

For those desiring Gladioli in separate varieties, so the colors may be studied, we offer a collection of 10 each of 10 varieties separately labeled for \$5.00.

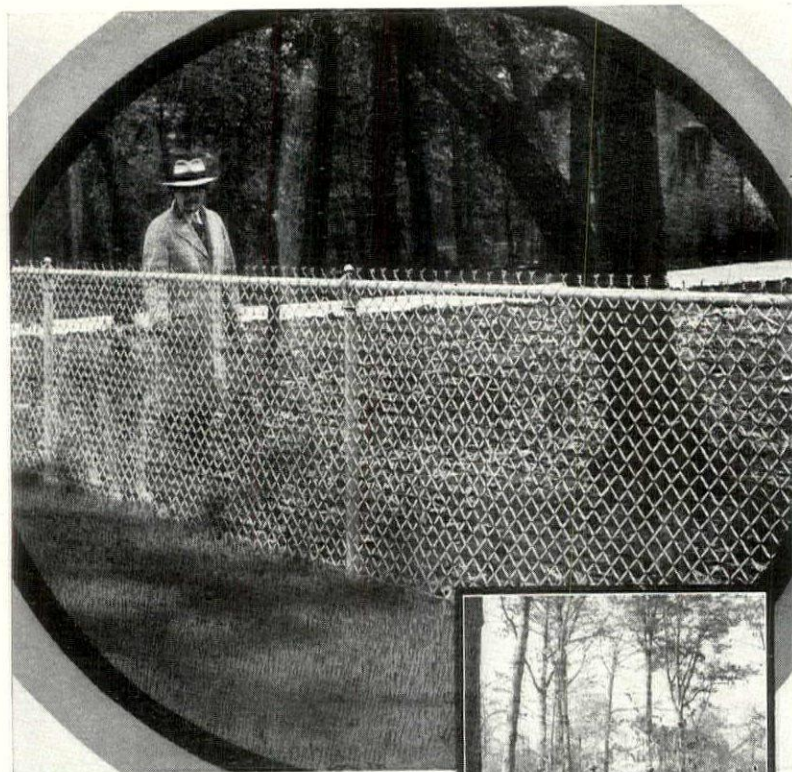
Order Your Bulbs Now
so as to have them to plant when you begin your garden.

Mail your order with Check, Money Order, Cash or Stamps, mentioning this advertisement, or call at any of our Stores, and secure either one, or both, of these splendid collections, sent prepaid to your home anywhere in the United States.

Our 1931 Spring Seed Annual sent on request

Stumpp & Walter Co

30-32 Barclay St. New York City
Branch Stores in:
White Plains, N. Y. Newark, N. J. Stamford, Conn. Hempstead, L. I.



Page Fence

Unfenced Grounds are an invitation to trespass

Unfenced ground is looked upon as public property. People who would be insulted if accused of theft do not hesitate to help themselves to fruit and flowers and shrubs in unfenced yards and gardens. A PAGE Fence will protect both your privacy and your property. That and the extreme durability of the fence itself make it a wise investment.

PAGE Engineers with a half-century of research behind them have reduced fencing to a science—a fine art. PAGE Fence now comes in four different metals to resist different atmospheric conditions.

1. PAGE ALCOA ALUMINUM
2. PAGE ARMCO INGOT IRON
3. PAGE COPPER-BEARING STEEL
4. PAGE ORNAMENTAL WROUGHT IRON

76 Service Plants erect PAGE Fence everywhere. Write for name and address of Plant in your locality. They will gladly consult with you and offer suggestions from plans to final erection. No obligation whatever. Complete descriptive literature on request. Address Page Fence Association, 520 North Michigan Avenue, Dept. D13, Chicago, Illinois.

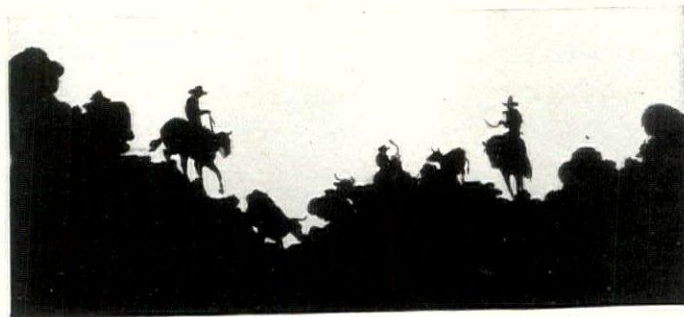
America's first
—since—
PAGE
nation-wide service
through 76 service plants
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1883

Fence of Armco Ingot Iron fabric is exclusive with Page

Page Fence is a Product of The Page Steel & Wire Co., an Associate Company of American Chain Co., Inc.

CHAIN LINK OR ORNAMENTAL WROUGHT IRON



Iron silhouettes were used to decorate fire-screens in the 12th Century. Above, a Western round-up, in iron, on a modern fire-screen. By Thomas Wood

The Return Of The Wrought Iron Silhouette

(Continued from page 120)

the living room of the dude ranch or, in his play room, feeds the imagination of a small boy.

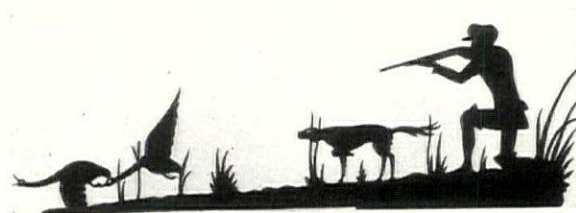
Clipper ships and rakish buccaneers ride on iron waves across mica lamp shades. An extremely attractive treatment for the rough, bare walls of a sun porch or the exterior walls of a pent house takes the form of a climbing, gracefully interlaced vine with supports for small flower pots projecting from it at intervals. Wild animals can peer at you from a vast jungle, or monkeys scamper gaily across a palm-fringed shore on the walls of your cellar game room. Weather-vanes and sign posts are in all sorts of fascinating and imaginative designs. Quaint figures decorate all types of lanterns, old-fashioned and new. Incidentally, when the silhouette is intended for an outdoor setting, painted brass is preferred, for its rustproof qualities, to iron. The possibilities for the use of the iron silhouette are almost endless and the variety of design is limited only by the imagination.

Not only are modern silhouettes executed to portray the fads and hobbies of their owners, but ancient signs from England and the Colonies, from far-off peasant districts of Sweden,

Switzerland and more remote corners of the world, are being collected to be used in the modern setting. Several quaint silhouettes of this type, some of them circular in shape, attracted much interest when shown as wall plaques at an exhibition of the Women Decorator's Club.

The use of iron pictures as an adornment of the fire-screen can be traced directly from the present day back to the 12th Century when the first edicts were passed ordering people to protect their fireplaces with metal. The earliest decorations were Scriptural scenes, heraldic devices and the intertwined initials of great houses and famous lovers. Such Biblical subjects as the sacrifice of Isaac by Abraham were favorites because the flames became a part of the picture. A modern version of this sort of thing is found in a fire-screen with a Western sunset scene by Thomas Wood for which the glow of dying embers makes an appropriate background.

The present revived interest in the more pictorial and original uses of hand-wrought iron is merely a return to a delicate and interesting art which lends itself to many charming uses in the hands of the artist craftsman.



An overmantel decoration for a man's room uses as its motif a duck-hunter with his dog and the two birds he has raised. This design by the Florentine Craftsman

The Victorian scene below, recently created by the Florentine Craftsman, might be used in a summer living room in place of the more familiar framed Godey print



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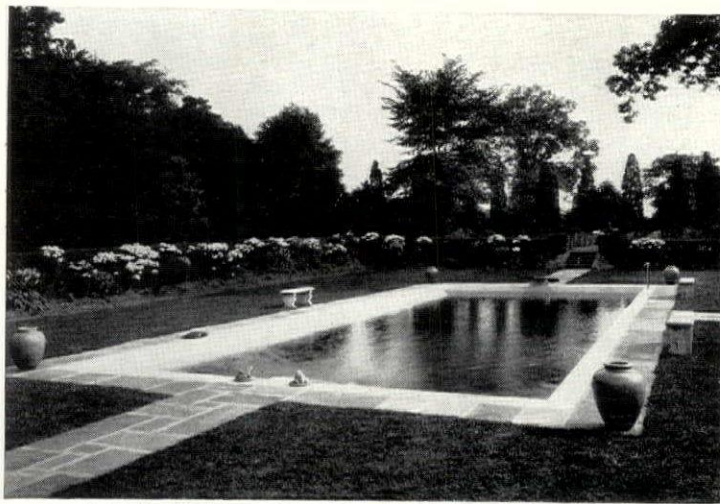
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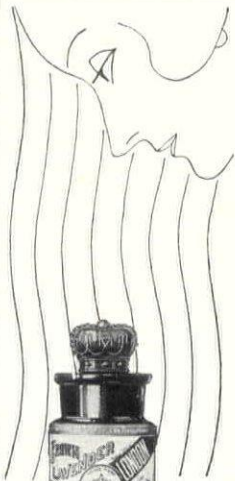
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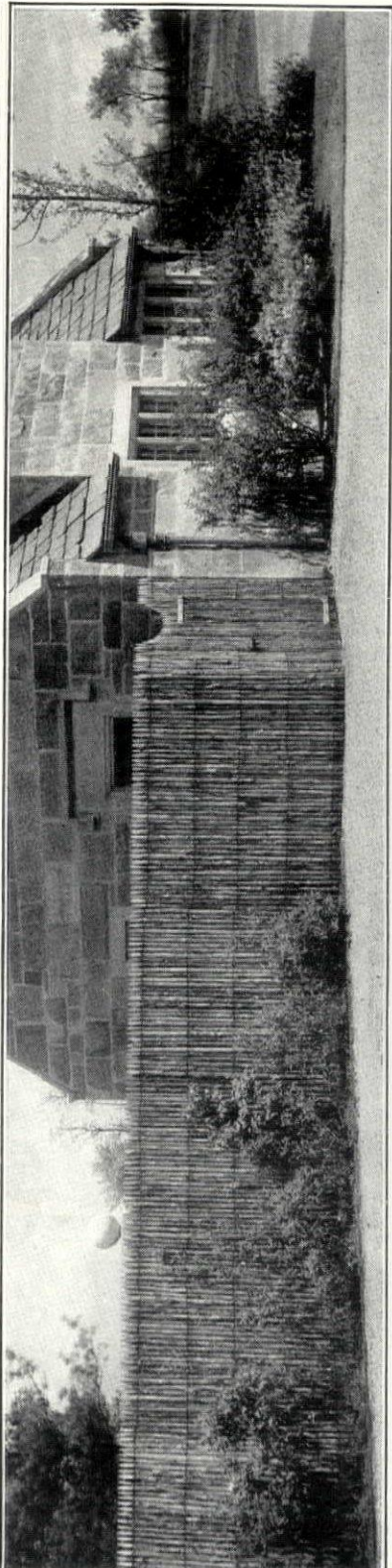
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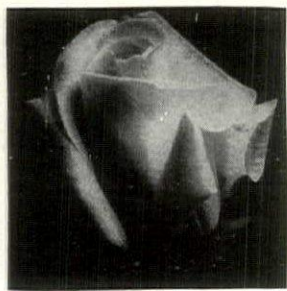


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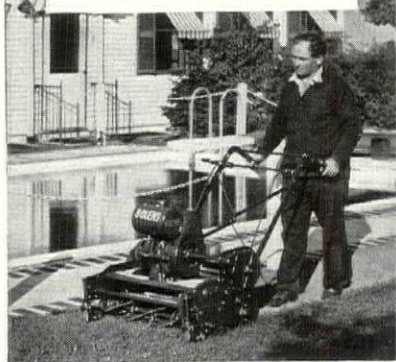
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The Garden Scrap Book

ROCK PHOSPHATE. Phosphoric acid is one of the essentials in a well balanced diet for plants, yet tests in several parts of the East, especially, have shown that very often the garden soil is noticeably deficient in it. In such cases the benefits of adding the chemical in proper form have been marked and gratifyingly long-lasting. In fact, some of the best results have been with perennials and other permanent plantings, rather than with short-time crops.

One of the best ways of adding available phosphoric acid is the use of what is known in the garden supply stores as acid or rock phosphate. It costs about \$2 a hundred pounds. An area 100' x 100' can well be given 200 pounds.

The method of applying rock phosphate is simple. It is simply scattered on the surface and dug in, as would be done with any other fertilizer. Mixing it thoroughly with the soil, of course, is important for best results.

SPRING PLANTING. It is a well established fact that spring planting of practically all kinds of woody plant material—trees and shrubs, evergreen and deciduous—if properly done is just about as successful as planting in the fall. In almost every instance, though, it should be done before active top growth starts and must be followed by an abundant supply

of water throughout the first growing season.

The best time for spring planting of the majority of these things comes as soon as the frost is out sufficiently to permit digging. If the stock can be secured with good balls of earth around the roots, so much the better. Let the holes be amply large and deep to accommodate all the roots without crowding and, if there is an underlying layer of hardpan or other unfavorable soil, break it up with a pick so that the roots can work down into it more easily as they grow. The soil below and around the roots had better be enriched with ground bone, special tree food or some other safe stimulant that is in quickly available form.

Before setting the stock in place, soak the roots with water and let the filling-in soil be damp but not soggy. Work it in well around the roots so as to exclude all air spaces, and tramp down firmly. It will help conserve the soil moisture if the top two or three inches are left untamped. Better still, lay a good mulch of litter, leaves or other light material over the whole surface of the finished planting.

A NEW GADGET. One of the simplest but most useful garden devices that we have seen has been put out recently by a New England concern. They call it a leaf scavenger, which is descriptive if not alluring.

This valuable gadget is neither



Flowers need food.. as well as sunshine

BEAUTIFUL and luxuriant plants need to be well fed—only then do they bear a profusion of lovely flowers. Just like humans, they need a balanced, clean and complete food—BloomAid. BloomAid comes in tablets, or in granulated form for use out-of-doors. We shall be glad to tell you where it may be procured in your vicinity. Write for our free booklet, "How to Grow House Plants." *Lawn and Garden Department, Virginia-Carolina Chemical Corp., P.O. Box 1136, Richmond, Va.*

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When Mistress Spring Bids Your Garden Awake

Each day brings fresh delights and surprises. You look eagerly for plants that are new, watch them as the days go on, and put them down as garden treasures. A score or more of such plants presented by Bristol Nurseries have become standard today. This year we invite your attention to others equally good.

In the group are four new *Garden Pinks*, *Bristol Jewel* (white, flecked crimson), *Bristol Maid* (rose pink), *Bristol Purity* (pure white), *Lady Betty* (pink and lavender), *Seedling No. 6*, an unnamed variety from our gardens (extra large pink flowers all summer), *Gaillardia*, *Pres. Hoover* (bronzy red and yellow); *Portola* and *Golden Gleam*, show the possibilities of these plants when the hybridizer brings his skill to bear. *Bristol Fairy Gypsophila* increases in popularity each year—its pure white double flowers are unsurpassed for cutting.

BRISTOL'S NEW CATALOGUE, a new and intriguing edition, presents many more new and desirable hardy plants. This distinctive catalogue should be in your possession. We shall be glad to mail a copy on request.

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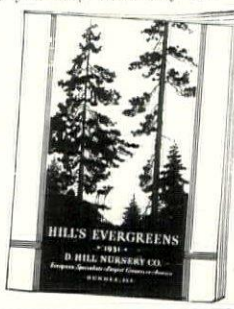
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PICTURE in your mind the beauty that comes to your home when Hill's Evergreens are a part of the planting scheme. The stately Juniper vies for attention with the graceful Arborvitae; the dwarf-like Mugho Pine adds a color tone in low relief; while the Japanese Yew, the Red Cedar or Colorado Spruce lends the charm of variety.

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18 to 24 in.....	\$1.50	\$13.50	\$125
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Note: All spring orders placed and paid for before March first are subject to 10% discount.

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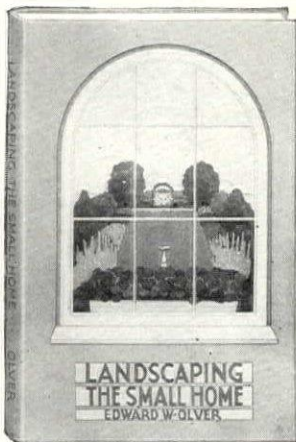
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Our Handbook for Spring, 1931 is now ready for distribution. It lists, describes and illustrates our unusual stock of plants. It will be sent free east of the Mississippi and north of the Potomac (the territory we can best serve)—elsewhere upon receipt of fifty cents. May we send you a copy?

Sales offices are maintained at both Framingham and North Abington. Inquiries may be directed to either office as you prefer.

Bay State Nurseries Incorporated

Main Office 702 Adams Street
North Abington, Mass.



The Garden Scrap Book

even call for the laying of mats or old carpet over the sashes on especially sharp evenings.

PEACH LOCATIONS. Especially toward the northern parts of their range, Peaches and Apricots are most satisfactory when planted in locations which are what gardeners call "late"—in other words, where the exposure is such that the beginning of spring growth is retarded. The worst places for these trees are a southward facing, protected slope, or a valley shut off from cold winds.

The reason for this situation is perfectly simple. Both Peaches and Apricots blossom early, before their leaves come out. If they are planted in a place where this early tendency is stimulated, there is more danger that the blossoms will develop enough to be injured by a subsequent frost, and the crop for that year lost.

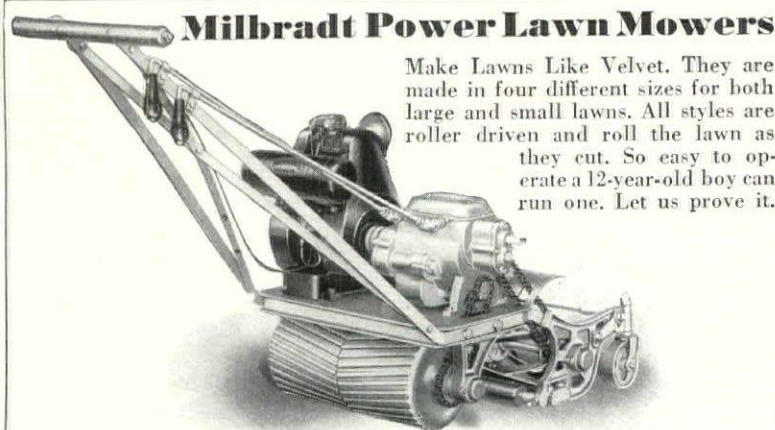
A "late" location, on the other hand, is no more subject to a belated freezing than is an "early" one. Naturally, the blossoms of trees growing in such a spot are less developed at the time a cold snap comes, and consequently are much more likely to survive it with little or no damage.

ESSENTIAL GARDEN TOOLS. A carpenter is known by his chips, they say, and so is a gardener to be identified by the quality of his soil. If it is in good tilth—friable,

rich and well cultivated—you can be pretty sure that the person who takes care of it has the proper tools, keeps them in good condition and uses them correctly.

The list of tools essential to the making and maintenance of a first-class moderate sized garden is neither lengthy nor appallingly expensive. First of all we would specify a spade—a well-made, standard sized one that will do a real job of digging. Secondly, the implement known in the trade as a spading fork—a broad-tined affair that is invaluable for digging in mulches, turning over cultivated soil, and so forth. Third and fourth, a standard steel rake and a first-class trowel. Fifth, a big, substantial, he-man watering can fitted with a fine rose. Sixth, a long-tined hand weeder. And to round out a well balanced list, pruning shears, grass clippers, garden line, compressed air sprayer and a narrow steel rake which will enable you to work close around plants without bending over.

In a vegetable garden, of course, a wheel-hoe with full set of attachments is an absolute, fundamental necessity; it saves much time and energy, and does a perfect job of cultivating and is useful in many other ways. It can well be supplemented with an old-fashioned hoe of the common or garden variety, a tool which, despite all the efforts of a machine age, still has a great deal to be said in its favor.



Milbradt Power Lawn Mowers

Make Lawns Like Velvet. They are made in four different sizes for both large and small lawns. All styles are roller driven and roll the lawn as they cut. So easy to operate a 12-year-old boy can run one. Let us prove it.

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TEN sparkling Colorado Blue Spruce Trees for only \$3.95, no extra cost for delivery! Five-year-old specimens 9 to 12 inches high—double transplanted.

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**Every Tree
Guaranteed
to Live!**

Any trees reported not flourishing within one year, will be promptly replaced without cost to you.

The Blue Spruce is a marvelous investment. The bluest varieties are like a silvery cloud on the lawn.

For Spring Planting

The best time for planting these evergreens in the Spring is from March 15th until June 1st. They will come to you glistening, fresh, vibrant. It is simple to grow these trees. Instructions for care and planting will be sent with your shipment. Little space is needed—you can raise these trees in a few square feet of ground.

If you can use more than ten, we will send you 25 for \$9.50, or 100 for \$35. This price includes delivery!

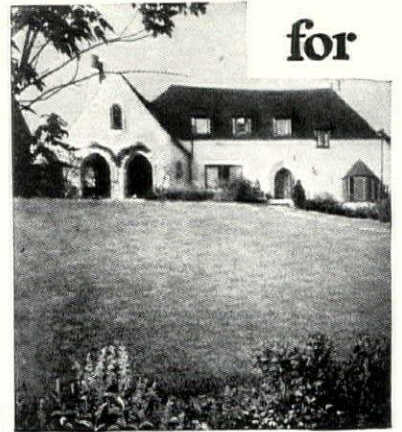
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Scott's Creeping Bent for



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A Cumberland, Md., customer writes: "In six weeks, almost like magic, Creeping Bent completely covered the ground. It has become so thick and green that it looks more like a velvet rug than grass."

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Norway Spruce & White Spruce
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**100 of any variety or
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Average weight 10 lbs. per 100. No order less than 100 at this price, remit with order. Trees sent at proper time for planting. Send for folder

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Its brilliance is dazzling—a rare bloom in which old gold, cerise-pink, yellow, flame and scarlet are combined. You'll love it. One strong bush given with each order of Lovett's "Elite" Collection.

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GORGEOUS
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These 6 fine Roses comprise Lovett's "Elite" Collection:

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Individually they would cost with "President Hoover" \$7.45—all for \$5.00. Every bush field-grown, strong blooming age and healthy. Order today!

New 1931 Catalog Free.—Roses, Perennials, Evergreens, Shrubs, Hedge Plants, Fruit Stock, etc.

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12 Evergreens Black Hill Spruce, Concolor Fir, Col. Blue Spruce, Douglas Fir, 3 each of the above, 4 to 6 in. seedlings, all 12 for \$1.00 **\$1.00** Post Paid

Specials 25¢

In coin to cover packing, handling and postage will bring you 5 Spirea, or 8 Mixed Iris, or 10 Shasta Daisies, or 25 Baby Gladi, Blooming Size. The small charge barely covers the expense of putting this advertising offer in your hands Free.

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Beautiful Catalog In Colors FREE

Earl Ferris Nursery
545 Bridge St.
Hampton, Iowa

The Garden Scrap Book

And having acquired first-class garden tools of the right kinds, keep them clean, keep them sharp, and *don't lend them to the next-door neighbor.*

FOR LABELING PLANTS. Plant labels for garden use are a puzzling problem—they always have been, and perhaps will always continue to be so. To be wholly satisfactory they must be durable, easily marked and attached, legible, not too conspicuous, and as inexpensive as possible, so that large numbers can be used without running up too sizable a bill. These are difficult requirements to meet, especially when you consider that the conditions of exposure are such as to put a severe test upon any kind of manufactured product.

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Another label, especially designed not long ago for rock garden use where durability and inconspicuousness are equally required, is particularly noteworthy. It is of green celluloid on which a steel stylus will write the name in white. The effect is neat and, as has been said, is really weatherproof and long-lasting.

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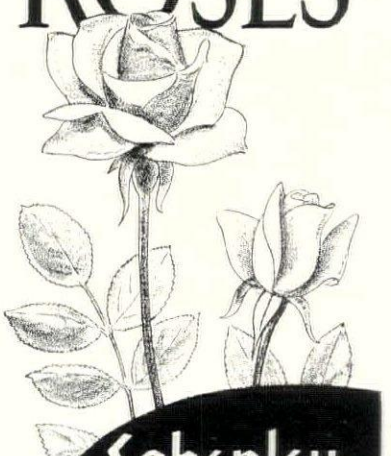
The uses of a home garden nursery are numerous. Such a place is ideal for taking care of those odd plants of every conceivable sort which we all accumulate every year by gift, theft or chance purchase. Seedling or rooted cutting evergreens, young shrubs of any kind, Gladiolus bulb-lets, seedling Lilies, individual plants that need a change of air, perennial divisions too small to put in the regular border—the list is long indeed.

And the soil and other requirements of such an area are not difficult. Whether the space be ten feet square or ten hundred, let its soil be light, well drained, moderately rich in both plant food and humus material, and open to the sun for at least half the day. The character of a good, productive vegetable garden is the thing to aim for in the nursery plot.

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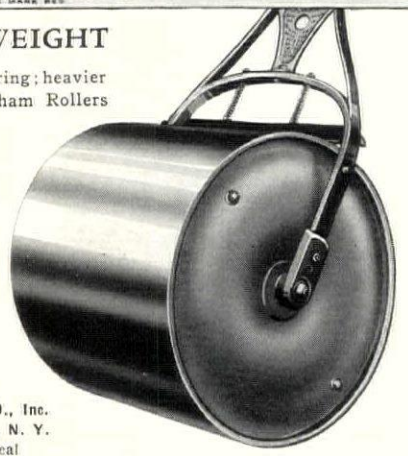
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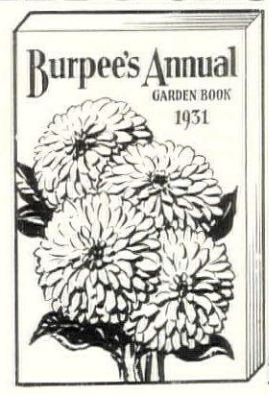
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Incinerators

INCINERATORS (Chimney-Fed). Describes the Kernerator and how it operates. Built in a number of sizes, it meets requirements of small and large residences. KERNER INCINERATOR CO., 3541 N. RICHARDS ST., MILWAUKEE, WIS.

Portable Houses

HODGSON HOUSES. Booklet G-2 shows houses and their floor plans. This company makes garages, play houses and garden furniture. E. F. HODGSON CO., 1108 COMMONWEALTH AVE., BOSTON, MASS.

Windows, Doors, Screens

CRITTALL METAL WINDOWS. Types of Crittall casement windows are illustrated. Technical drawings explain the construction. CRITTALL CASEMENT WINDOW COMPANY, DETROIT, MICH.

SCREENS THAT MEET THE TEST. A series of illustrations of test cases shows the durability of Anaconda bronze screens. THE AMERICAN BRASS COMPANY, WATERBURY, CONN.

HIGGIN SCREEN BOOK. Information is given on where to use sliding, swinging or rolling screens. A Higgin agent will work with you on choosing screens. THE HIGGIN MFG. CO., H-021, NEWPORT, KY.

Miscellaneous

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Drapery & Upholstery Fabrics

FABRICS, THE KEY TO SUCCESSFUL DECORATION. A book of help to those planning home decoration. F. SCHUMACHER & Co., E2, 60 W. 40TH ST., N. Y. C.

Floor Coverings

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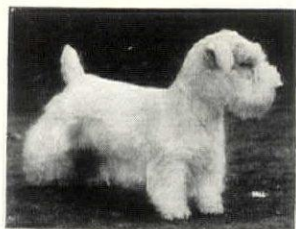
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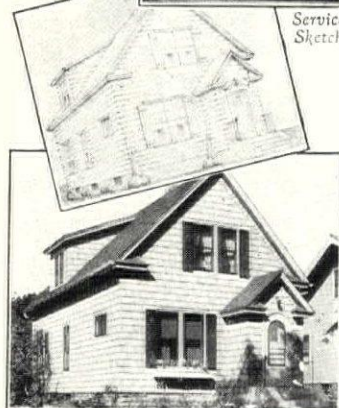
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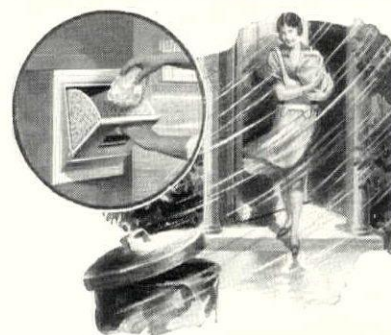
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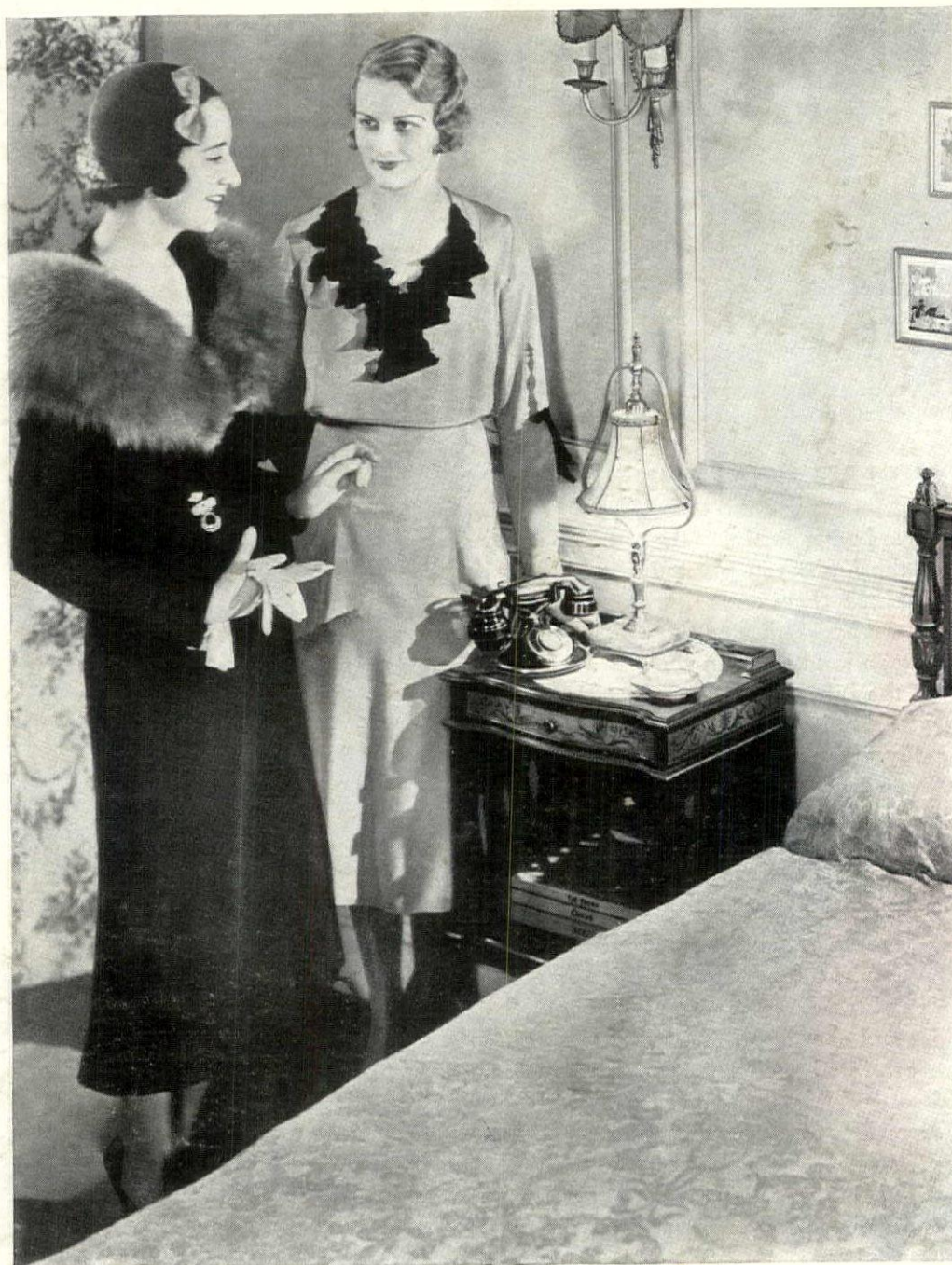
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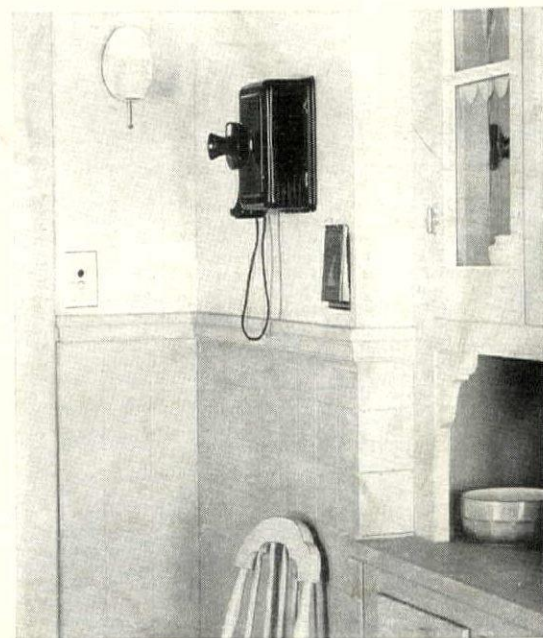
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